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1: unit Unit1; // Diesel4           versione 4.1.0.230    22/09/20
2:
3: interface
4: {$WARNINGS ON}
5: {$HINTS ON}
6: {$WARN UNIT_PLATFORM OFF}
7: {$WARN SYMBOL_PLATFORM OFF}
8: uses
9:   Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
10:   Dialogs, ComCtrls, StdCtrls, iniFiles, fileCtrl, ExtCtrls, HTMLHelpViewer,
11:   Data.DB, ABSMain, System.UITypes, Unit2, Unit3, math, CommCtrl, shellAPI,
12:   JvExControls, JvColorBox, JvColorButton, Vcl.Buttons, JvExButtons, JvButtons,
13:   JvExExtCtrls, JvExtComponent, JvPanel, JvFullColorSpaces, JvFullColorCtrls;
14:
15: type
16:   TForm1 = class(TForm)
17:     PB: TProgressBar;
18:     Edit1: TEdit;
19:     Label1: TLabel;
20:     Edit2: TEdit;
21:     Label2: TLabel;
22:     Edit3: TEdit;
23:     Label3: TLabel;
24:     Button2: TButton;
25:     Edit4: TEdit;
26:     Label4: TLabel;
27:     Label5: TLabel;
28:     Edit5: TEdit;
29:     Edit6: TEdit;
30:     Button4: TButton;
31:     Edit7: TEdit;
32:     Label8: TLabel;
33:     Label9: TLabel;
34:     Edit8: TEdit;
35:     Label10: TLabel;
36:     Bevel1: TBevel;
37:     RadioButton5: TRadioButton;
38:     RadioButton6: TRadioButton;
39:     Label11: TLabel;
40:     RadioButton7: TRadioButton;
41:     Label15: TLabel;
42:     Label16: TLabel;
43:     Edit9: TEdit;
44:     Edit10: TEdit;
45:     Label17: TLabel;
46:     Edit12: TEdit;
47:     Label19: TLabel;
48:     Button6: TButton;
49:     Label20: TLabel;
50:     Button1: TButton;
51:     Edit13: TEdit;
52:     Label23: TLabel;
53:     Button7: TButton;
54:     Label12: TLabel;
55:     ABSDatabase1: TABSDatabase;
56:     DataSource1: TDataSource;
57:     Edit14: TEdit;
58:     Label13: TLabel;
59:     Label14: TLabel;
60:     Label22: TLabel;
61:     Edit15: TEdit;
62:     RadioGroup2: TRadioGroup;
63:     Panel2: TPanel;
64:     Panel1: TPanel;
65:     RadioButton1: TRadioButton;
66:     RadioButton2: TRadioButton;
67:     Button3: TButton;
68:     CheckBox1: TCheckBox;
69:     Edit16: TEdit;
70:     Label6: TLabel;
71:     Button8: TButton;
72:     Label7: TLabel;
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73: Edit17: TEdit;
74: Label18: TLabel;
75: Edit11: TEdit;
76: Edit18: TEdit;
77: RadioButton3: TRadioButton;
78: Button9: TButton;
79: ABSTable1: TABSTable;
80: Button10: TButton;
81: Label25: TLabel;
82: Label26: TLabel;
83: ComboBox1: TComboBox;
84: Label27: TLabel;
85: Edit19: TEdit;
86: Label28: TLabel;
87: Edit20: TEdit;
88: PB2: TProgressBar;
89: CheckBox2: TCheckBox;
90: Button5: TButton;
91: Timer1: TTimer;
92: JvHTButton1: TJvHTButton;
93: Timer2: TTimer;
94: Bevel2: TBevel;
95: procedure PBComputing(Sender: TObject);
96: procedure Edit1KeyPress(Sender: TObject; var Key: Char);
97: procedure Edit2KeyPress(Sender: TObject; var Key: Char);
98: procedure Edit3KeyPress(Sender: TObject; var Key: Char);
99: procedure Edit7KeyPress(Sender: TObject; var Key: Char);
100: procedure RadioButton5Click(Sender: TObject);
101: procedure RadioButton6Click(Sender: TObject);
102: procedure RadioButton7Click(Sender: TObject);
103: procedure Button3Click(Sender: TObject);
104: procedure Button2Click(Sender: TObject);
105: procedure Edit4KeyPress(Sender: TObject; var Key: Char);
106: procedure Button4Click(Sender: TObject);
107: procedure Edit6KeyPress(Sender: TObject; var Key: Char);
108: procedure Button6Click(Sender: TObject);
109: procedure Button1Click(Sender: TObject);
110: procedure Button7Click(Sender: TObject);
111: procedure Edit14KeyPress(Sender: TObject; var Key: Char);
112: procedure Button8Click(Sender: TObject);
113: procedure Button9Click(Sender: TObject);
114: procedure Edit7Enter(Sender: TObject);
115: procedure RadioButton2Click(Sender: TObject);
116: procedure Button10Click(Sender: TObject);
117: procedure RadioButton3Click(Sender: TObject);
118: procedure FormCreate(Sender: TObject);
119: procedure Edit16KeyPress(Sender: TObject; var Key: Char);
120: procedure ComboBox1Change(Sender: TObject);
121: procedure Edit6MouseEnter(Sender: TObject);
122: procedure Edit6MouseLeave(Sender: TObject);
123: procedure CheckBox1Click(Sender: TObject);
124: procedure Edit8Enter(Sender: TObject);
125: procedure Edit19Enter(Sender: TObject);
126: procedure Edit5Enter(Sender: TObject);
127: procedure Edit10Enter(Sender: TObject);
128: procedure Edit11Enter(Sender: TObject);
129: procedure Edit12Enter(Sender: TObject);
130: procedure Edit13Enter(Sender: TObject);
131: procedure Edit17Enter(Sender: TObject);
132: procedure Edit9Enter(Sender: TObject);
133: procedure Edit18Enter(Sender: TObject);
134: procedure Edit15Enter(Sender: TObject);
135: procedure Edit20KeyPress(Sender: TObject; var Key: Char);
136: procedure Edit20Enter(Sender: TObject);
137: procedure CheckBox2Click(Sender: TObject);
138: procedure Button5Click(Sender: TObject);
139: procedure Timer1Timer(Sender: TObject);
140: procedure JvHTButton1Click(Sender: TObject);
141: procedure Timer2Timer(Sender: TObject);
142:
143: private
144:     { Private declarations }
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145:   public
146:   function GetAppVersionStr: string; { Public declarations }
147:   end;
148:
149: var
150:   Form1: TForm1;
151:   sp,cn,rt,H,tk,atk,rtc,rng,brnd,tempo,srthrs,fuelstart,PP,cn2,alarm: double;
152:   pos:integer;
153:   dir,s1,zeroStr,riserva,dato1,dato2:string;
154:   myini:TiniFile;
155:   rb,rp,pieno: smallint;
156:   flag1,flag2,SPD,CNS,RTE,BRNED,TNK,TNKAC,ENGSTRT,FILLED,FBASE,ALRM,dorme: boolean;
157:   mydecimal:pchar;
158:   punto,virgola: Char;
159:   evento :TnotifyEvent;
160:   versione:string;
161: const
162:   PBM_SETBKCOLOR = 8193;           // Attenzione queste dichiarazioni
163:   PBM_SETBARCOLOR = (WM_USER+9);   // sono MOLTO IMPORTANTI
164: implementation
165: {$R *.dfm}
166: //uses
167: //Unit3;
168: procedure TForm1.FormCreate(Sender: TObject);
169: begin
170:   // Button2.StyleElements := [seClient, seBorder, seFont];
171:   // Button2.Font.Color := clRed;
172:   Application.HelpFile:='Diesel.chm';
173:   brnd:=0;
174:   tempo:=0;
175:   rb:=0;           //coefficiente + - =
176:   PP:=0; //conterrà il valore del cumulativo all'atto del pieno
177:   dorme:=False; //per leggere quando è stato cambiato il range Edit20
178:   SPD:=False;
179:   CNS:=False;
180:   RTE:=False;
181:   TNK:=False;
182:   TNKAC:=False;
183:   ALRM:=False;
184:   ENGSTRT:=False;
185:   BRNED:=False;
186:   FILLED:=False;
187:   FBASE:=False;
188:   flag1:=False;
189:   flag2:=False;
190:   pieno:=0; //indice di pieno (0,1,2)
191:   dir:=GetCurrentDir+'\';
192:   // radiobutton7.Checked:=True;
193:   //cerca il decimale
194:   MyDecimal:=StrAlloc(10);
195:   GetLocaleInfo(LOCALE_SYSTEM_DEFAULT,LOCALE_SDECIMAL,MyDecimal,10);
196:   //Showmessage('System decimal is - '"+MyDecimal+"'");
197:   punto:= '.';
198:   virgola:=',';
199:   zeroStr:='0'+mydecimal+'0';
200:   edit20.Text:=zerostr;
201:   if fileexists(dir+'diesel.ini')=True then
202:   begin
203:     MyIni := TIniFile.Create(dir+'diesel.ini') ;
204:     //legge il file ini e proietta i dati sulla finestra
205:     if ((MyIni.Readstring('settings','speed','')<>'') AND
206:       (strtofloat(MyIni.Readstring('settings','speed',''))<> 0))
207:     then //velocità controlla se è null o zero
208:     begin
209:       sp:=strtofloat(MyIni.Readstring('settings','speed',''));
210:       SPD:=True;
211:     end;
212:
213:     if ((MyIni.Readstring('settings','alarm','')<>'') AND
214:       (strtofloat(MyIni.Readstring('settings','alarm',''))<> 0))
215:     then //Livello di allarme controlla se è null o zero
216:     begin
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217:         alarm:=strtofloat(MyIni.Readstring('settings','alarm',''));
218:         alarm:=alarm/100;
219:         ALRM:=True;
220:     end;
221:
222: if ((MyIni.Readstring('settings','consump','')<>'') AND
223: (strtofloat(MyIni.Readstring('settings','consump',''))<> 0))
224: then //consumo
225:     begin
226:         cn:=strtofloat(MyIni.Readstring('settings','consump',''));
227:         cn2:=cn;
228:         edit20.Text:=FloatToStr(cn2);
229:         CNS:=True;
230:     end;
231:
232: if ((MyIni.Readstring('settings','rate','')<>'') AND
233: (strtofloat(MyIni.Readstring('settings','rate',''))<> 0))
234: then //aliquota
235:     begin
236:         rt:=strtofloat(MyIni.Readstring('settings','rate',''));
237:         RTE:=True;
238:     end;
239:
240: if ((MyIni.Readstring('resource','tank','')<>'') AND
241: (strtofloat(MyIni.Readstring('resource','tank',''))<> 0))
242: then //serbatoio
243:     begin
244:         tk:=strtofloat(MyIni.Readstring('resource','tank',''));
245:         TNK:=True;
246:     end;
247:
248: if ((MyIni.Readstring('resource','actual','')<>'') AND
249: (strtofloat(MyIni.Readstring('resource','actual',''))<> 0))
250: then //attuale
251:     begin
252:         atk:=strtofloat(MyIni.Readstring('resource','actual',''));
253:         if atk>tk then
254:             showmessage('ATTENTION - unexpected error(?actual fuel?), debug through log or
stop using the program');
255:             TNKAC:=True;
256:         end;
257:
258: if ((MyIni.Readstring('settings','engstart','')<>'') AND
259: (strtofloat(MyIni.Readstring('settings','engstart',''))<> 0))
260: then //ore motore iniziali
261:     begin
262:         srthrs:=strtofloat(MyIni.Readstring('settings','engstart',''));
263:         ENGSTRT:=True;
264:     end;
265:
266: if ((MyIni.Readstring('data','burned','')<>'') AND
267: (strtofloat(MyIni.Readstring('data','burned',''))<> 0))
268: then //carburante consumato
269:     begin
270:         tempo:=strtofloat(MyIni.Readstring('data','burned',''));
271:         BRNED:=True;
272:     end;
273:
274: if ((MyIni.Readstring('data','CumFill','')<>'') AND
275: (strtofloat(MyIni.Readstring('data','CumFill',''))<> 0))
276: then //carburante cum caricato
277:     begin
278:         edit17.text:=MyIni.Readstring('data','CumFill','');
279:         FILLED:=True;
280:     end;
281:
282:     if ((MyIni.Readstring('data','PartFill','')<>'') AND
283: (strtofloat(MyIni.Readstring('data','PartFill',''))<> 0))
284: then //parziale = carburante caricato dall'ultimo pieno
285:     begin
286:         edit11.text:=MyIni.Readstring('data','PartFill','');
287:     end else
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288:         begin
289:             edit11.Text:=zerostr;
290:             MyIni.WriteString('data','PartFill',edit11.text);
291:         end;
292:
293:         if ((MyIni.Readstring('settings','fuelBase','')<>'') AND
294: (strtofloat(MyIni.Readstring('settings','fuelBase',''))<> 0))
295: then //carburante di partenza (serbatoio + già consumato)
296:     begin
297:         fuelstart:=strtofloat(MyIni.Readstring('settings','fuelBase',''));
298:         FBASE:=True;
299:     end;
300:
301:         if ((MyIni.Readstring('data','LastFcons','')='') OR
302: ((MyIni.Readstring('data','LastFcons',''))= '0'))
303: then //non esiste ancora indice di consumo da pieno
304:     myini.WriteString('data','LastFcons','NA') else
305:     edit18.Text:=MyIni.Readstring('data','LastFcons','');
306:
307:         if ((MyIni.Readstring('data','HrsCalc','')<>'') OR //ore ultimo calcolo cons.
308: ((MyIni.Readstring('data','HrsCalc',''))<> '0'))
309: then //esistono le ore relative al consumo da pieno
310:     label26.Caption:=('At Hours: '+MyIni.Readstring('data','HrsCalc','')) else
311:     label26.Caption:='';
312:
313:         if ((MyIni.Readstring('data','pieno','')<>'') OR
314: ((MyIni.Readstring('data','pieno',''))<> '0'))
315: then pieno:=strToInt(MyIni.Readstring('data','pieno',''));
316:
317:         if (MyIni.Readstring('data','PP','')<>'') OR
318: (MyIni.Readstring('data','PP','')<>'0')
319: then PP:=StrToFloat(MyIni.Readstring('data','PP',''));
320:
321:         //scrive i dati sul form -- è una ripetizione
322:         edit9.Text:=myini.ReadString('data','range',''); //stored data
323:         edit10.Text:=myini.ReadString('data','filling',''); //stored data
324:         edit12.Text:=MyIni.ReadString('data','hours',''); //stored data
325:         edit13.Text:=Myini.ReadString('data','burned',''); //stored data
326:         edit5.Text:=Myini.ReadString('data','LastTpHrs',''); //stored data
327:         edit1.text:=myini.ReadString('settings','speed','');
328:         edit2.text:=myini.ReadString('settings','consump','');
329:         edit3.text:=myini.ReadString('settings','rate','');
330:         edit7.text:=myini.ReadString('resource','tank','');
331:         if checkbox2.Checked=True then
332:             begin
333:                 dato1:=myini.ReadString('resource','actual','');
334:                 riserva:=myini.readString('resource','reserve','');
335:                 dato2:= FloatToStr(strToFloat(dato1)-strToFloat(riserva));
336:                 if dato2<=floattoStr(0) then
337:                     begin
338:                         if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
339: mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
340:                             begin
341:                                 checkbox2.Checked:=False;
342:                                 exit;
343:                             end;
344:                         end;
345:                     edit8.text:=dato2;
346:                 end else
347:                     edit8.text:=myini.ReadString('resource','actual','');
348:                     edit14.Text:=myini.ReadString('settings','engstart','');
349:                     edit18.Text:=myini.ReadString('data','lastFcons','');
350:                     edit19.Text:=Myini.ReadString('data','PrevTpHrs',''); //stored data
351:                     edit17.Text:=myini.ReadString('data','CumFill',''); //stored data
352:                     edit11.Text:=myini.ReadString('data','PartFill',''); //stored data
353:
354:                     if (SPD and CNS and RTE and TNK and TNKAC and ENGSTRT and BRNED and FBASE and FILLE
D and ALRM) = False then
355:                         // qualche dato manca
356:                         begin
357:                             button1click(Sender);
358:                             //Exit;
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359:         end else // se sono presenti tutti i dati
360:         begin
361:             PBcomputing(Sender);
362:             showmessage('Settings OK. Use Fuel Control');
363:         end;
364: // inizializza il database e verifica l'esistenza di *.ABS
365: try
366:     ABSDatabase1.DatabaseFilename:= ExtractFilePath(Application.ExeName)+'DieselDB.ABS';
367:     ABSDatabase1.Open;
368:     ABSTable1.TableName:='EntryLog';
369:     ABSTable1.Open;
370: except on E: Exception do
371:     begin
372:         ShowMessage('Database file not found: search for *.ABS file !');
373:         Button6Click(Sender);
374:     end;
375: end;
376:
377: end else
378:     begin//se non esiste l'ini si crea ed inizializza
379:
380:         //INIZIALIZZAZIONE DEL PROGRAMMA
381:         MyIni := TIniFile.Create(dir+'diesel.ini') ;
382:         myini.WriteString('data','burned',FormatFloat('###0.0',0));
383:         myini.WriteString('data','range',FormatFloat('###0.0',0));
384:         myini.WriteString('settings','alarm',FormatFloat('###0.0',0));
385:         myini.WriteString('data','LastTpHrs',FormatFloat('###0.0',0));
386:         myini.WriteString('data','PrevTpHrs',FormatFloat('###0.0',0));
387:         myini.WriteString('data','hours',FormatFloat('###0.0',0));
388:         myini.WriteString('data','PP',FormatFloat('###0.0',0));
389:         myini.WriteString('data','filling',FormatFloat('###0.0',0));
390:         myini.WriteString('data','CumFill',FormatFloat('###0.0',0));
391:         myini.WriteString('data','PartFill',FormatFloat('###0.0',0));
392:         myini.WriteString('data','HrsCalc',FormatFloat('###0.0',0));
393:         myini.WriteString('settings','speed',FormatFloat('###0.0',0));
394:         myini.WriteString('settings','consump',FormatFloat('###0.0',0));
395:         myini.WriteString('settings','rate',FormatFloat('#0',0));
396:         myini.WriteString('settings','engstart',FormatFloat('###0.0',0));
397:         myini.WriteString('settings','fuelBase',FormatFloat('###0.0',0));
398:         myini.WriteString('resource','tank',FormatFloat('###0.0',0));
399:         myini.WriteString('resource','actual',FormatFloat('###0.0',0));
400:         myini.WriteString('resource','reserve',FormatFloat('###0.0',0));
401:         myini.WriteString('data','LastFcons','NA');
402:         edit1.Text:='0';
403:         edit2.Text:='0';
404:         edit3.Text:='0';
405:         edit4.Text:='0';
406:         edit5.Text:='0';
407:         edit6.Text:='0';
408:         edit7.Text:='0';
409:         edit8.Text:='0';
410:         edit9.Text:='0';
411:         edit10.Text:='0';
412:         edit11.Text:='0';
413:         edit12.Text:='0';
414:         edit13.Text:='0';
415:         edit14.Text:='0';
416:         edit15.Text:='0';
417:         edit16.Text:='0';
418:         edit17.Text:='0';
419:         edit18.Text:='0';
420:         edit19.Text:='0';
421:         label26.Caption:='';
422:         //Form1.Show;
423:         if Dialogs.MessageDlg('Welcome ! - new settings file, continue ?',
424:             mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
425:             Application.Terminate;
426:             showmessage('Please entry settings data, press ENTER at each entry to continue');
427:             //occorre aprire il database anche in creazione dell'ini
428:             ABSDatabase1.DatabaseFilename:= ExtractFilePath(Application.ExeName)+'DieselDB.ABS'
429: ;
430:             ABSDatabase1.Open;
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430:         ABSTable1.TableName:='EntryLog';
431:         ABSTable1.Open;
432:         button9click(Sender);
433:         button1click(Sender);
434:     end;
435:     GetAppVersionStr;
436:     caption:=caption + ' ver: '+versione+'           Help press F1';
437: end;
438:
439: function TForm1.GetAppVersionStr: string;
440: var
441: Exe: string;
442: Size, Handle: DWORD;
443: Buffer: TBytes;
444: FixedPtr: PVSFixedFileInfo;
445: begin
446: Exe := ParamStr(0);
447: Size := GetFileVersionInfoSize(PChar(Exe), Handle);
448: if Size = 0 then
449: RaiseLastOSError;
450: SetLength(Buffer, Size);
451: if not GetFileVersionInfo(PChar(Exe), Handle, Size, Buffer) then
452: RaiseLastOSError;
453: if not VerQueryValue(Buffer, '\', Pointer(FixedPtr), Size) then
454: RaiseLastOSError;
455: Result := Format('%d.%d.%d.%d',
456: [LongRec(FixedPtr.dwFileVersionMS).Hi, //major
457: LongRec(FixedPtr.dwFileVersionMS).Lo, //minor
458: LongRec(FixedPtr.dwFileVersionLS).Hi, //release
459: LongRec(FixedPtr.dwFileVersionLS).Lo]); //build
460: versione:= Result;
461: end;
462:
463: procedure TForm1.JvHTButton1Click(Sender: TObject); //UNDO
464: begin
465:     if fileexists(dir+'diesel.tmp')=True then
466:     begin
467:         if Dialogs.MessageDlg('ATTENTION : confirm you want to undo Hours or Fuel entry !',
468:             mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then Exit;
469:         CopyFile('Diesel.tmp', 'Diesel.ini', False);
470:         Form1.Caption:='Fuel control4';
471:         FormCreate(Sender);
472:         DeleteFile('Diesel.tmp');
473:         Edit4.Color:=clYellow;
474:         Edit6.Color:=clYellow;
475:         Edit9.Color:=clYellow;
476:         Exit;
477:     end else
478:     begin
479:         ShowMessage('Nothing to undo !');
480:         Edit4.Color:=clYellow;
481:         Edit6.Color:=clYellow;
482:         Edit9.Color:=clYellow;
483:         Exit;
484:     end;
485: end;
486:
487: //SET del serb.attuale
488: procedure TForm1.Edit8Enter(Sender: TObject);
489: begin
490:     showmessage('Cannot enter data here. Use "ADD FUEL" entry');
491:     exit;
492: end;
493:
494: procedure TForm1.Edit9Enter(Sender: TObject);
495: begin
496:     showmessage('Cannot enter data here. ');
497:     exit;
498: end;
499:
500: procedure TForm1.Button1Click(Sender: TObject); //Verifica e caricamento funzioni primarie
501:
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502: begin
503:     Form1.show;
504: //Controlla i dati di setting
505:
506:     //ShowMessage('Ini file exists, but it has been resetted. Control in progress.');
507:     if SPD=False then
508:     begin
509:         showmessage('Please enter estimated Standard Cruising Speed');
510:         edit1.SetFocus;
511:         edit1.Color:=clLime;
512:         exit;
513:     end;
514:
515:     if CNS=False then
516:     begin
517:         showmessage('Please enter estimated Standard Fuel Consumption');
518:         edit2.SetFocus;
519:         edit2.Color:=clLime;
520:         exit;
521:     end;
522:
523:     if RTE=False then
524:     begin
525:         showmessage('Please enter variation rate');
526:         edit3.SetFocus;
527:         edit3.Color:=clLime;
528:         exit;
529:     end;
530:
531:     if TNK=False then
532:     begin
533:         showmessage('Please enter Maximum Tank Capacity');
534:         edit7.SetFocus;
535:         edit7.Color:=clLime;
536:         exit;
537:     end;
538:
539:     if srthrs=0 then
540:     if Dialogs.MessageDlg('Confirm engine start hours = 0',
541:         mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
542:         ENGSTRT:=False;
543:
544:
545:     if ENGSTRT=False then
546:     begin
547:         showmessage('Please Set Engine hours START data');
548:         edit14.SetFocus;
549:         edit14.Color:=clLime;
550:         exit;
551:     end;
552:
553:     if TNKAC=False then
554:     begin
555:         showmessage('Please Set estimated Actual Tank - Use Add Fuel entry box');
556:         edit4.Color:=clLime;
557:         edit4.SetFocus;
558:         Exit;
559:     end;
560:
561:     if FILLED=False then
562:     begin
563:         edit17.Text:= edit8.text ; //dato che inizialmente è identico all'actual
564:         FILLED:=True;
565:         myini.WriteString('data','CumFill',edit17.Text);
566:     end;
567:
568:     if BRNED=False then
569:     begin
570:         myini.WriteString('data','burned',floattostr(0)); //azzerare il dato burned ovunque
571:         BRNED:=True;
572:         edit13.Text:=floattostr(0);
573:     end;
```



```

574:
575:     if FBASE=False then
576: begin
577: myini.WriteString('settings','fuelBase',floattostr(strtfloat(edit8.text)));
578: FBASE:=True;
579: end;
580:
581: if (ALRM=False) and (TNKAC=True) then
582: if Dialogs.MessageDlg('Inizializzazione data not completed. Do you want to exit? ',
583: mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo
584: then
585: begin
586: Application.CreateForm(TForm3, Form3); // inserito qui e non nella dpr
587: Form3.Show; // perchè altrimenti dà AV ???
588: Exit;
589: end
590: else
591: begin
592: Button6Click(sender); //Done
593: Exit;
594: end;
595:
596: if (SPD and CNS and RTE and TNK and TNKAC and ENGSTRT and BRNED and FBASE and FILLED
and ALRM) = True then
597: begin
598: showmessage(' Checkup completed : OK ');
599: PBComputing(Sender);
600: end else
601: begin
602: if form3.Visible=True then Form3.Visible:=False;
603:
604: if Dialogs.MessageDlg('Inizializzazione data not completed. Do you want to exit? ',
605: mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo
606: then button1click(Sender)else
607:
608: Exit;
609: end;
610:
611: end;
612:
613: procedure TForm1.Edit10Enter(Sender: TObject);
614: begin
615: showmessage('Cannot enter data here. ');
616: exit;
617: end;
618:
619: procedure TForm1.Edit11Enter(Sender: TObject);
620: begin
621: showmessage('Cannot enter data here. ');
622: exit;
623: end;
624:
625: procedure TForm1.Edit12Enter(Sender: TObject);
626: begin
627: showmessage('Cannot enter data here. ');
628: exit;
629: end;
630:
631: procedure TForm1.Edit13Enter(Sender: TObject);
632: begin
633: showmessage('Cannot enter data here. ');
634: exit;
635: end;
636: //Inserimento dati nel CONTAORE INIZIALE
637: procedure TForm1.Edit14KeyPress(Sender: TObject; var Key: Char); //IN contaore iniziale
638: begin
639: //controllo format
640: if (Key = '.') OR (key = ',') then //controllo del tasto decimale
641: if punto = mydecimal then
642: key:= punto else key := virgola ;
643: //Fcontrollo format

```

```

644:     if (key=#13) then if (StrToFloat(Edit14.Text)>0) then //inserimento ORE MOTORE INIZIALI
645: begin
646:     edit14.Color:=clCream;
647:     if TryStrToFloat(edit14.Text,srthrs)=False then //controllo del float
648:         begin
649:             ShowMessage('Please check your input format details!');
650:             exit;
651:         end;
652:     if Dialogs.MessageDlg('WARNING - Diesel control will base on these data, NO to modify or c
ancel. Continue ?',
653:         mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrYes then
654:         begin
655:             myini.WriteString('settings','engstart',edit14.Text);
656:             ENGSTRT:=True;
657:             SendMessage(edit3.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
658:             self.ActiveControl:=nil;
659:             Button1click(Sender); //Save when done //rivedere da questo punto
660:         end else
661:         begin
662:             edit14.Text:='';
663:             edit14.SetFocus;
664:             edit14.Color:=clLime;
665:             exit;
666:         end;
667:
668:     Edit12.Text:=Edit14.Text; //Contaore all'inizializzazione
669:     myini.WriteString('data','hours',edit12.text);
670:     if edit8.Text=edit7.text then //se all'inizio è pieno
671:         begin
672:             edit19.Text:=edit12.Text;
673:             myini.WriteString('data','PrevTpHrs',edit12.text);
674:         end;
675:
676: // SendMessage(edit14.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
677: // self.ActiveControl:=nil;
678:
679: // carica il DB log con i primi dati
680:     with ABSTable1 do
681:         begin
682:             Insert;
683:             FieldByName('speed').AsString:=myini.ReadString('settings','speed','');
684:             FieldByName('cons').AsString:=myini.ReadString('settings','consump','');
685:             FieldByName('Rate').AsString:=myini.ReadString('settings','rate','');
686:             FieldByName('MaxTnk').AsString:=myini.ReadString('resource','tank','');
687:             FieldByName('Actual').AsString:=myini.ReadString('resource','Actual','');
688:             FieldByName('AddFuel').AsString:=myini.ReadString('data','filling','');
689:             FieldByName('AddHrs').AsString:=myini.ReadString('data','hours','');
690:             FieldByName('CumFuel').AsString:=myini.ReadString('data','CumFill','');
691:             FieldByName('PartFuel').AsString:=myini.ReadString('data','PartFill','');
692:             FieldByName('LFcons').AsString:=myini.ReadString('data','LastFcons','');
693:             FieldByName('LastFill').AsString:=edit10.Text;
694:             FieldByName('LastHrs').AsString:=edit12.text;
695:             FieldByName('PrevFHrs').AsString:=myini.ReadString('data','LastTPHrs','');
696:             FieldByName('HrsCalc').AsString:=myini.ReadString('data','HrsCalc','');
697:             FieldByName('LtrTUp').AsString:=edit11.text;
698:             Post;
699:         end;
700:
701:     end else Button1Click(Sender);
702:
703: end;
704:
705: procedure TForm1.Edit15Enter(Sender: TObject);
706: begin
707:     showmessage('Cannot enter data here. ');
708:     exit;
709: end;
710:
711: procedure TForm1.Edit16KeyPress(Sender: TObject; var Key: Char); //consumo f(RPM)
712:     var
713: fcalc :double;
714: flo16:double; //numero di giri inserito

```

```
715: begin
716:   if (edit16.Text='') or (StrToFloat(edit16.Text)=0) then
717:     begin
718:       edit15.Text:= 'NA';
719:     end;
720:   if (Key = '.') OR (key = ',') then      //controllo del tasto decimale
721:     if punto = mydecimal then
722:       key:= punto else key := virgola ;
723:   if key=#13 then
724:     begin                                //verifica se combobox1 seleziona il motore
725:       if (strtofloat(edit16.Text)>0) AND (combobox1.ItemIndex = -1)= True then
726:         begin
727:           showmessage('Please, Select engine type');
728:           Edit16.Text:='';
729:           exit;
730:         end else                        //calcolo del consumo con la funzione specifica
731:         begin
732:           flo16:=strtofloat(edit16.Text)/1000; //Volvo D2-55 custom
733:           if combobox1.ItemIndex =0 then
734:             begin
735:               fcalc := 1.33*flo16+0.505;
736:               edit15.text := FormatFloat('#.##',fcalc);
737:             end;
738:           if combobox1.ItemIndex =1 then //YANMAR 4JH5E
739:             begin
740:               fcalc :=-0.044*intpower(flo16,3)+2.4*intpower(flo16,2)-5*flo16+4;
741:               edit15.Text:= FormatFloat('#.##',fcalc);
742:             end;
743:           if combobox1.ItemIndex =2 then //Volvo D2-55 teorica
744:             begin
745:               fcalc :=0.252*intpower(flo16,3)+1.179*flo16-0.419;
746:               edit15.Text:= FormatFloat('#.##',fcalc);
747:             end;
748:           if combobox1.ItemIndex =3 then //4JH4AE Yanmar
749:             begin
750:               fcalc :=2*intpower(flo16,3)-10.184*intpower(flo16,2)+21.376*flo16-14.292;
751:               edit15.Text:= FormatFloat('#.##',fcalc);
752:             end;
753:           if combobox1.ItemIndex =4 then //D1-30 VolvoPenta
754:             begin
755:               fcalc :=0.11*intpower(flo16,3)+0.54*intpower(flo16,2)-1.23*flo16+1.25;
756:               edit15.Text:= FormatFloat('#.##',fcalc);
757:             end;
758:
759:
760:           end;
761:           Radiobutton3.Checked:=True;
762:         end;
763:       end;
764:
765:     procedure TForm1.Edit17Enter(Sender: TObject);
766:     begin
767:       showmessage('Cannot enter data here.');
```

```
768:       exit;
769:     end;
770:
771:     procedure TForm1.Edit18Enter(Sender: TObject);
772:     begin
773:       showmessage('Cannot enter data here.');
```

```
774:       exit;
775:     end;
776:
777:     procedure TForm1.Edit19Enter(Sender: TObject);
778:     begin
779:       showmessage('Cannot enter data here.');
```

```
780:     end;
781:
782:     procedure TForm1.Edit1KeyPress(Sender: TObject; var Key: Char);
783:     begin
784:       if (Key = '.') OR (key = ',') then      //controllo del tasto decimale
785:         if punto = mydecimal then
786:           key:= punto else key := virgola ;
```

```
787:
788:   if (key=#13) then if (StrToFloat(Edit1.Text)>0) then    //inserimento velocità std
789:   begin
790:     edit1.Color:=clCream;
791:     if TryStrToFloat(edit1.Text,sp)=False then    //controllo del float
792:     begin
793:       ShowMessage('Please check your input format details!');
794:       exit;
795:     end;
796:
797:     myini.WriteString('settings','speed',edit1.Text);
798:     sp:=strtofloat(edit1.Text); //crea la variabile
799:     SPD:=True;
800:     SendMessage(edit1.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
801:     self.ActiveControl:=nil;
802:     button1click(Sender);
803:   end else Button1Click(Sender);
804:
805: end;
806:
807: procedure TForm1.Edit20Enter(Sender: TObject);
808: begin
809:   Edit20.Text:='';
810:   edit20.Color:=clLime;
811:   edit20.SetFocus;
812: end;
813:
814: procedure TForm1.Edit20KeyPress(Sender: TObject; var Key: Char);    //Cambia Range
815: var
816: t:string;
817: begin
818:   if (Key = '.') OR (key = ',') then    //controllo del tasto decimale
819:     if punto = mydecimal then
820:       key:= punto else key := virgola ;
821:   if (key=#13) then if (StrToFloat(Edit20.Text)>0) then
822:   begin
823:     cn2:=strToFloat(edit20.Text);
824:     if cn2=0 then
825:     begin
826:       cn2:=cn;
827:       edit20.Text:=FloatToStr(cn2);
828:     end;
829:     if checkbox2.Checked=True then
830:     begin
831:       datol:=myini.ReadString('resource','actual','');
832:       riserva:=myini.readstring('resource','reserve','');
833:       atk:= (strToFloat(datol)-strToFloat(riserva));
834:       if atk<=0 then
835:       begin
836:         if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
837: mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
838:         begin
839:           checkbox2.Checked:=False;
840:           exit;
841:         end;
842:       end;
843:       t:= FormatFloat('###0',atk*sp/cn2);
844:     end else
845:       t:= FormatFloat('###0',atk*sp/cn2);
846:     edit9.Text:=t;
847:     SendMessage(edit1.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
848:     self.ActiveControl:=nil;
849:   end else Button1Click(Sender);
850:   if edit20.Text<>edit2.text then
851:     edit20.color:=clRed else
852:     edit20.Color:=clCream;
853:     dorme:=True;
854: end;
855:
856: procedure TForm1.Edit2KeyPress(Sender: TObject; var Key: Char);
857: begin
858:   if (Key = '.') OR (key = ',') then    //controllo del tasto decimale
```

```

859:         if punto = mydecimal then
860:             key:= punto else key := virgola ;
861:     if (key=#13) then if (StrToFloat(Edit2.Text)>0) then
862:         //inserimento consumo std
863:     begin
864:         edit2.Color:=clCream;
865:         if TryStrToFloat(edit2.Text,cn)=False then
866:             begin
867:                 ShowMessage('Please check your input format details!');
868:                 exit;
869:             end else
870:                 edit20.Text:=edit2.Text;
871:                 myini.WriteString('settings','consump',edit2.Text);
872:                 cn:=strtofloat(edit2.Text); //crea la costante del consumo
873:                 CNS:=True;
874:                 SendMessage(edit2.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
875:                 self.ActiveControl:=nil;
876:                 button1click(Sender);
877:             end else Button1Click(Sender);
878:
879: end;
880:
881: procedure TForm1.Edit3KeyPress(Sender: TObject; var Key: Char);
882: begin
883:     if (Key = '.') OR (key = ',') then      //controllo del tasto decimale
884:         if punto = mydecimal then
885:             key:= punto else key := virgola ;
886:     if (key=#13) then if (StrToFloat(Edit3.Text)>0) then      //inserimento aliquota di variazi
one std
887:     begin
888:         edit3.Color:=clCream;
889:         if TryStrToFloat(edit3.Text,rt)=False then
890:             begin
891:                 ShowMessage('Please check your input format details!');
892:                 exit;
893:             end;
894:
895:             myini.WriteString('settings','rate',edit3.Text);
896:             rt:=strtofloat(edit3.Text); //crea la variabile
897:             RTE:=True;
898:             SendMessage(edit3.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
899:             self.ActiveControl:=nil;
900:             button1click(Sender);
901:         end else Button1Click(Sender);
902:
903: end;
904:
905: // Inserimento litri del serbatoio al pieno
906: procedure TForm1.Edit7Enter(Sender: TObject);
907: begin
908: if (myini.ReadString('resource','tank','')<>'') and (myini.ReadString('resource','tank','')<>
zeroStr)
909: then showmessage('ATTENTION you are modifying a critical data');
910: end;
911:
912: procedure TForm1.Edit7KeyPress(Sender: TObject; var Key: Char);
913: begin
914:     if (Key = '.') OR (key = ',') then      //controllo del tasto decimale
915:         if punto = mydecimal then
916:             key:= punto else key := virgola ;
917:     if (key=#13) then if (StrToFloat(Edit7.Text)>0) then
918:         begin
919:             edit7.Color:=clCream;
920:             if TryStrToFloat(edit7.Text,tk)=False then
921:                 begin
922:                     ShowMessage('Please check your input format details!');
923:                     exit;
924:                 end;
925:
926:             if Flag2 = true then // attivato il change settings
927:                 if Dialogs.MessageDlg('Do you want, ALSO, to reset Cumul.filled/TopUp fuel ?',
mtConfirmation, [mbYes, mbNo], 0, mbNo) = mrNo

```

```
929:         then
930:             Flag2:=False
931:         else
932:             begin
933:                 myini.WriteString('data','CumFill',floattostr(0)); //azzerà il dato stored
934:                 myini.WriteString('data','PartFill',floattostr(0));
935:                 edit17.Text:='0';
936:                 edit11.Text:='0';
937:                 Flag2:=False;
938:             end;
939:
940:         myini.WriteString('resource','tank',edit7.Text);
941:         tk:=strtofloat(edit7.Text); //crea la variabile
942:         TNK:=True;
943:         SendMessage(edit7.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
944:         self.ActiveControl:=nil;
945:         button1click(Sender);
946:     end else Button1Click(Sender);
947:
948: end;
949:
950:
951:
952: //carico o scarico gasolio
953: procedure TForm1.Button2Click(Sender: TObject);
954: begin
955:
956:     if atk=tk then
957:     begin
958:         showmessage('Cannot fill any fuel. Tank is TopUp');
959:         evento:=CheckBox1.OnClick;           // disattivo onClick
960:         Checkbox1.OnClick:=nil;               // cambio checkbox1 e
961:         checkbox1.Checked:=False; // riattivo l'evento
962:         Checkbox1.OnClick:=evento;
963:         exit;
964:     end;
965:     if Dialogs.MessageDlg('Do you have to enter latest Engine Hours first ?', //Controlla se l
e ore sono già date
966:         mtConfirmation, [mbYes, mbNo], 0, mbNo) = mrYes then
967:     begin
968:         evento:=CheckBox1.OnClick;           // disattivo onClick
969:         Checkbox1.OnClick:=nil;               // cambio checkbox1 e
970:         if checkbox1.Checked=True then       // riattivo l'evento
971:             checkbox1.Checked:=False;
972:         Checkbox1.OnClick:=evento;
973:         exit;
974:     end;
975:     if Dialogs.MessageDlg('Enter total liters supplied ("- " to subtract), NO to exit',
976:         mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
977:     begin
978:         evento:=CheckBox1.OnClick;           // disattivo onClick
979:         Checkbox1.OnClick:=nil;               // cambio checkbox1 e
980:         if checkbox1.Checked=True then       // riattivo l'evento
981:             checkbox1.Checked:=False;
982:         Checkbox1.OnClick:=evento;
983:         exit;
984:     end else
985:     begin
986:         edit4.Text:='';
987:         edit4.SetFocus;
988:         edit4.Color:=clLime;
989:     end;
990: end;
991:
992: // lancia dbgrid per visionare il log
993: procedure TForm1.Button3Click(Sender: TObject);
994: begin
995: //view log ???
996: form2.Show;
997: end;
998:
999: procedure TForm1.Button4Click(Sender: TObject);
```

```

1000: begin                                // entra le ore di motore
1001:   if flag1=True then
1002:     if Dialogs.MessageDlg('Recently you already used this function, continue ?',
1003:       mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
1004:       exit;
1005:     if Dialogs.MessageDlg('You are going to enter actual engine hours, continue ?',
1006:       mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
1007:       exit;
1008:     edit6.SetFocus;
1009:     edit6.Color:=clLime;
1010:     edit12.Color:=clyellow;
1011:     exit;
1012:
1013: end;
1014:
1015: procedure TForm1.Button5Click(Sender: TObject); // read INI
1016: begin
1017:   ShellExecute(Handle,'open', 'c:\windows\notepad.exe','diesel.ini', nil, SW_SHOWNORMAL)
1018: ;
1019: end;
1020:
1021: procedure TForm1.PBcomputing(Sender: TObject); // calcolo della ProgressBar
1022: begin
1023:   if dorme=True then
1024:   begin
1025:     edit20.Text:=edit2.Text;
1026:     edit20.Color:=clCream;
1027:     cn2:=cn;
1028:     dorme:=False;
1029:   end;
1030:   RadioButton5.Checked:=False; //resetta i fattori di correzione
1031:   RadioButton6.Checked:=False;
1032:   atk:=strtofloat(MyIni.Readstring('resource','actual',''));
1033:   if tk<>0 then
1034:   pos:=round(100*atk/tk);
1035:   if atk<=tk*alarm then
1036:   begin
1037:     SendMessage(PB.Handle, PBM_SETBKCOLOR, 0, clyellow); //colore background
1038:     SendMessage(PB.handle, PBM_SETBARCOLOR, 0,clRed) ; //colore di foreground
1039:     Label10.Caption:='Alarm';
1040:   end else
1041:   if atk<=tk*0.20 then
1042:   begin
1043:     SendMessage(PB.Handle, PBM_SETBKCOLOR, 0, clyellow);
1044:     SendMessage(PB.handle, PBM_SETBARCOLOR, 0,clAqua) ;
1045:     Label10.Caption:='Caution';
1046:   end else
1047:   begin
1048:     SendMessage(PB.Handle, PBM_SETBKCOLOR, 0, clCream);
1049:     SendMessage(PB.handle, PBM_SETBARCOLOR, 0,clAqua) ;
1050:     Label10.Caption:='Safe';
1051:   end;
1052:   PB.position :=pos;
1053:   if cn<>0 then
1054:   rng:=atk*sp/cn; //scrive il range
1055:   myini.WriteString('data','range',formatfloat('#',rng));
1056:   if (checkbox2.Checked=True) and (cn>0) then
1057:   begin
1058:     datol:=myini.Readstring('resource','actual','');
1059:     riserva:=myini.readstring('resource','reserve','');
1060:     atk:= (strToFloat(datol)-strToFloat(riserva));
1061:     if atk<=0 then
1062:     begin
1063:       if Dialogs.MessageDlg('WARNING - Tank value negative or null, continue?. Answer NO (Recommended)',
1064:         mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1065:       begin
1066:         checkbox2.Checked:=False;
1067:         exit;
1068:       end;
1069:     end;

```

```
1070:         edit9.Text:= FormatFloat('###0',atk*sp/cn);
1071:     end else
1072:     edit9.Text:=myini.ReadString('data','range',''); //stored data
1073:     edit20.Text:=FloatToStr(cn);
1074:     // PB2.Brush.Color:=clBlack; //background
1075:     SendMessage(PB2.Handle, PBM_SETBARCOLOR, 0, clRed); //barra
1076:     PB2.Position:=round(100*alarm);
1077: end;
1078:
1079: procedure TForm1.RadioButton2Click(Sender: TObject);
1080: begin
1081: if (edit18.Text='') or (strtoint(edit18.Text)=0) or (edit18.Text='NA') then
1082:     begin
1083:         showmessage('No consumption data available. Change method');
1084:         radioButton1.Checked:=True;
1085:         exit;
1086:     end;
1087: end;
1088:
1089: procedure TForm1.RadioButton3Click(Sender: TObject);
1090: begin
1091:     if (edit16.Text='') or (StrToFloat(edit16.Text)=0) then
1092:     begin
1093:         showmessage('Attention - Error : no Entry RPM available.'+#13#10+'          Start
from Engine Select');
1094:         RadioButton1.Checked:=True;
1095:         exit;
1096:     end;
1097: end;
1098:
1099: //inserimento coefficiente peggiorativo
1100: procedure TForm1.RadioButton5Click(Sender: TObject);
1101: begin
1102:     rb:=1;
1103: end;
1104: //inserimento coefficiente migliorativo
1105: procedure TForm1.RadioButton6Click(Sender: TObject);
1106: begin
1107:     rb:=2;
1108: end;
1109: //valutazione a standard
1110: procedure TForm1.RadioButton7Click(Sender: TObject);
1111: begin
1112:     rb:=0;
1113: end;
1114: procedure TForm1.Timer1Timer(Sender: TObject); //Blinking
1115: begin
1116:     if (checkbox2.Checked=True) and (checkbox2.Color=clRed) then
1117:         checkbox2.Color:= clskyblue else
1118:         if checkbox2.Checked=True then checkbox2.Color:=clRed;
1119: end;
1120:
1121: procedure TForm1.Timer2Timer(Sender: TObject);
1122: begin
1123:     if (Label11.Color=clRed)and (Edit6.Color=clLime) then
1124:     begin
1125:         Label11.Color:=clYellow ;
1126:         Label11.font.color:=clWindowText;
1127:     end else
1128:     if Edit6.Color= clLime then
1129:     begin
1130:         Label11.Color:=clRed;
1131:         Label11.font.color:=clwhite;
1132:     end;
1133: end;
1134: end;
1135:
1136: //C A R B U R A N T E
1137: procedure TForm1.Edit4KeyPress(Sender: TObject; var Key: Char);
1138: var
1139:     agg: double;
1140:     cns,tmp: double;
```



```

1141: Begin //rifornimento carburante
1142:
1143: //controllo format
1144: if (Key = '.') OR (key = ',') then //controllo del tasto decimale
1145:     if punto = mydecimal then
1146:         key:= punto else key := virgola ;
1147: //Fcontrollo format
1148: //acquisizione precedente
1149: pieno:=strToInt(MyIni.ReadString('data','pieno',''));
1150: atk:=strtof(float(MyIni.ReadString('resource','actual',''))); //attuale precedente
1151: if checkbox2.Checked=True then
1152:     begin
1153:         dato1:=myini.ReadString('resource','actual','');
1154:         riserva:=myini.readstring('resource','reserve','');
1155:         dato2:= FloatToStr(strToFloat(dato1)-strToFloat(riserva));
1156:         if dato2<=floattostr(0) then
1157:             begin
1158:                 if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
1159:                     mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1160:                     begin
1161:                         checkbox2.Checked:=False;
1162:                         exit;
1163:                     end;
1164:                 end;
1165:
1166:                 edit8.text:=dato2;
1167:             end else
1168:                 edit8.Text:=myini.ReadString('resource','actual','');
1169:                 edit11.Text:=myini.ReadString('data','PartFill','');
1170:                 Edit19.Text:=myIni.ReadString('data','PrevTpHrs','');
1171:                 Edit17.Text:=myini.ReadString('data','CumFill','');
1172:                 Edit5.Text:=myini.ReadString('data','LastTpHrs','');
1173:                 edit10.Text:=myini.ReadString('data','filling',''); //stored data
1174: //Facquisizione precedente
1175: if key=#13 then //ENTRY GASOLIO
1176:     begin
1177:         edit4.Color:=clYellow;
1178:
1179:         if atk=tk then // atk è il valore prima del carico
1180:             begin
1181:                 showMessage('Cannot fill any fuel. Tank is TopUp');
1182:                 exit;
1183:             end;
1184:             //pone l'entry in "agg"
1185:             if TryStrToFloat(edit4.Text,agg)=False then //Att. si mette il nuovo carico in AGG se
True
1186:             begin
1187:                 ShowMessage('Please check your input format details!');
1188:                 exit;
1189:             end;
1190:             //Processo DELL'ACQUISITO
1191:
1192:             atk:=atk+agg; // aggiorna all'ultimo entry ma deve aspettare la conferma per registra
rlo
1193:             TNKAC:=True;
1194:             tmp:=StrToFloat(Edit17.Text)+agg; //calcola il nuovo cumulativo ma aspetta la conferma
per registrarlo
1195:
1196:             if atk>=tk then
1197:                 begin
1198:                     if Dialogs.MessageDlg('ATTENTION-Possible TopUp or overflow !.Do you confirm your entr
y ?',
1199:                         mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
1200:                         begin //nega l'input
1201:                             atk:=atk-agg;
1202:                             agg:=0;
1203:                             evento:=CheckBox1.OnClick;
1204:                             Checkbox1.OnClick:=nil;
1205:                             checkbox1.Checked:=False;
1206:                             Checkbox1.OnClick:=evento;
1207:                             edit4.SetFocus;
1208:                             edit4.Color:=clLime;

```

```

1209:         edit4.Text:='';
1210:         exit;
1211:     end else //conferma l'input anche di un overflow teorico
1212:     begin
1213:         CopyFile('Diesel.ini','Diesel.tmp',false); //copia ini per UNDO
1214:         evento:=CheckBox1.OnClick; // disattivo onClick
1215:         Checkbox1.OnClick:=nil; // cambio checkbox1 e
1216:         checkbox1.Checked:=True; // riattivo l'evento
1217:         Checkbox1.OnClick:=evento;
1218:         if atk>tk then
1219:             ShowMessage('Fuel liters to top-up are more then calculated !'+#13#10+'More amount c
onsumed.' );
1220:             showMessage('Tank TopUp - Actual set to Max Capacity - Cumulative to real ');
1221:             myIni.WriteString('resource','actual',Edit7.Text);
1222:             if checkbox2.Checked=True then
1223:             begin
1224:                 datol:=myini.ReadString('resource','actual','');
1225:                 riserva:=myini.readstring('resource','reserve','');
1226:                 dato2:= FloatToStr(strToFloat(datol)-strToFloat(riserva));
1227:                 if dato2<=floattostr(0) then
1228:                     begin
1229:                         if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
1230:                             mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1231:                             begin
1232:                                 checkbox2.Checked:=False;
1233:                                 exit;
1234:                             end;
1235:                         end;
1236:                         edit8.text:=dato2;
1237:                     end else
1238:                         edit8.Text:=myini.ReadString('resource','actual','');
1239:                         Edit10.Text:=Edit4.Text; //aggiorna ultimo carico di fuel sul form
1240:                         Myini.WriteString('data','filling',edit10.text); //aggiorna ultimo carico sull'INI
1241:                         Edit17.Text:=floattostr(tmp); //aggiorna il cumulativo sul form
1242:                         MyIni.WriteString('data','CumFill',edit17.text); //aggiorna il cumulativo sull'INI
1243:                         pieno:=pieno+1;
1244:                         myini.WriteString('data','pieno',inttostr(pieno));
1245:                     end;
1246:                 end;
1247:             end;
1248:         if (atk<tk) AND (checkbox1.Checked = False) then //non si tratta di un pieno
1249:         begin
1250:             CopyFile('Diesel.ini','Diesel.tmp',false); //copia ini per UNDO
1251:             myIni.WriteString('resource','actual',FloatToStr(atk));
1252:             if checkbox2.Checked=True then
1253:             begin
1254:                 datol:=myini.ReadString('resource','actual','');
1255:                 riserva:=myini.readstring('resource','reserve','');
1256:                 dato2:= FloatToStr(strToFloat(datol)-strToFloat(riserva));
1257:                 if dato2<=floattostr(0) then
1258:                     begin
1259:                         if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
1260:                             mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1261:                             begin
1262:                                 checkbox2.Checked:=False;
1263:                                 exit;
1264:                             end;
1265:                         end;
1266:                         edit8.text:=dato2;
1267:                     end else
1268:                         edit8.Text:=myini.ReadString('resource','actual','');
1269:                         Edit10.Text:=Edit4.Text; //aggiorna ultimo carico di fuel sul form
1270:                         Myini.WriteString('data','filling',edit10.text); //aggiorna ultimo carico sull'INI
1271:                         Edit17.Text:=floattostr(tmp); //aggiorna il cumulativo sul form
1272:                         MyIni.WriteString('data','CumFill',edit17.text); //aggiorna il cumulativo sull'INI
1273:                     end;
1274:                 end;
1275:             if (atk<tk) AND (checkbox1.Checked = True) then // si tratta di pieno
1276:                 if Dialogs.MessageDlg('Do you confirm FULL TANK filled up ?',
1277:                     mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrYes then
1278:                     begin // CONFERMA L'INPUT

```

```
1280: CopyFile('Diesel.ini','Diesel.tmp',false); //copia ini per UNDO
1281: //atk:=tk ;
1282: myIni.WriteString('resource','actual',Edit7.Text);
1283: if checkbox2.Checked=True then
1284: begin
1285:   dato1:=myini.ReadString('resource','actual','');
1286:   riserva:=myini.readString('resource','reserve','');
1287:   dato2:= FloatToStr(strToFloat(dato1)-strToFloat(riserva));
1288:   if dato2<=floattostr(0) then
1289: begin
1290:   if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
1291:   mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1292:   begin
1293:     checkbox2.Checked:=False;
1294:     exit;
1295:   end;
1296: end;
1297:   edit8.text:=dato2;
1298: end else
1299:   Edit8.Text:=Edit7.Text;
1300:   Edit10.Text:=Edit4.Text; //aggiorna ultimo carico di fuel sul form
1301:   Myini.WriteString('data','filling',edit10.text); //aggiorna ultimo carico sull'INI
1302:   Edit17.Text:=floattostr(tmp); //aggiorna il cumulativo sul form
1303:   MyIni.WriteString('data','CumFill',edit17.text); //aggiorna il cumulativo sull'INI
1304:   pieno:=pieno+1;
1305:   myini.WriteString('data','pieno',inttostr(pieno));
1306: end else // NON CONFERMA L'INPUT
1307: begin
1308:   atk:=atk-agg;
1309:   agg:=0;
1310:   evento:=CheckBox1.OnClick;
1311:   Checkbox1.onClick:=nil;
1312:   checkbox1.Checked:=False;
1313:   Checkbox1.OnClick:=evento;
1314:   edit4.SetFocus;
1315:   edit4.Color:=clLime;
1316:   edit4.Text:='';
1317:   exit;
1318: end;
1319:
1320: if pieno>=2 then
1321: begin
1322:   pieno:=2 ;
1323:   myini.WriteString('data','pieno',inttostr(pieno));
1324: end;
1325:   if (PP=0) AND (pieno=1) then //valore del cumulativo all'atto del pieno;
1326: begin
1327:   PP:=strToFloat(Edit17.text);
1328:   Myini.WriteString('data','PP',Edit17.text);
1329: end;
1330:   if (PP>0) AND (PP < strToFloat(Edit17.Text)) AND (pieno>=1) then
1331: begin
1332:   edit11.Text:=FloatToStr(strToFloat(edit11.Text)+agg);
1333:   myini.WriteString('data','PartFill',edit11.text);
1334: end;
1335: if pieno>=2 then //PIENO = 2
1336: begin
1337:   pieno:=2 ;
1338:   myini.WriteString('data','pieno',inttostr(pieno));
1339:   Edit5.Text:=Edit12.Text;
1340:   myIni.WriteString('data','PrevTpHrs',edit19.text); // ore precedenti
1341:   myIni.WriteString('data','LastTpHrs',Edit5.text); //ultime ore
1342: end;
1343:
1344: if pieno=1 then
1345: begin
1346:   Edit19.Text:=Edit12.Text; //ore
1347:   Edit5.Text:='';
1348:   myIni.WriteString('data','PrevTpHrs',edit19.text); //ore del pieno
1349:   myIni.WriteString('data','LastTpHrs',Edit5.text);
1350: end;
1351:
```

```

1352:
1353:
1354:         //calcola il nuovo CONSUMO DA DIFFERENZA TRA PIENI
1355:         //inverte i dati per il prossimo pieno sull'INI
1356:         if (pieno=2) and (checkbox1.Checked=True) then
1357:         begin
1358:             if (strtofloat(edit5.Text)<>0) AND (strtofloat(edit19.Text)<>0)and (strtofloat(edit11.T
ext)<>0) then
1359:                 cns:= strtofloat(edit11.Text)/(strtofloat(edit5.Text)-strtofloat(edit19.Text) );
1360:                 edit18.Text:=formatfloat('0.#0',cns); //consumo
1361:                 evento:=CheckBox1.OnClick;
1362:                 Checkbox1.OnClick:=nil;
1363:                 checkbox1.Checked:=False;
1364:                 Checkbox1.OnClick:=evento;
1365:                 pieno := 1; //riporta il pieno ad 1
1366:                 myini.WriteString('data','pieno',intToStr(pieno));
1367:                 s1:=myini.ReadString('data','hours','');
1368:                 myini.WriteString('data','hrsCalc',s1); //registra le ore di calcolo del consumo
1369:                 myIni.WriteString('data','PrevTpHrs',s1);
1370:                 myIni.WriteString('data','LastTpHrs',zerostr);
1371:                 myini.WriteString('data','LastFcons',edit18.Text); //scrive in LastFcons l'ultimo consu
mo calcolato tra pieni
1372:                 label26.Caption:=('At Hours: '+s1);
1373:                 myini.WriteString('data','PartFill',zerostr);
1374:             end;
1375:
1376:         //registra range e filling
1377:         rng:=atk*sp/cn;
1378:         myini.WriteString('data','range',formatfloat('#',rng));
1379:         if checkbox2.Checked=True then
1380:         begin
1381:             datol:=myini.ReadString('resource','actual','');
1382:             riserva:=myini.readString('resource','reserve','');
1383:             atk:= (strToFloat(datol)-strToFloat(riserva));
1384:             if atk<=0 then
1385:             begin
1386:                 if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
1387:                     mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1388:                 begin
1389:                     checkbox2.Checked:=False;
1390:                     exit;
1391:                 end;
1392:             end;
1393:             edit9.Text:= FormatFloat('###0',atk*sp/cn2);
1394:             edit20.Text:=FloatToStr(cn2);
1395:         end else
1396:             edit9.Text:=myini.ReadString('data','range',''); //stored data
1397:             edit20.Text:=FloatToStr(cn);
1398:             edit4.Text:='';
1399:             SendMessage(edit4.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
1400:             self.ActiveControl:=nil;
1401:
1402:         if ALRM = False then
1403:             // qualche dato manca
1404:             button1click(Sender) else // se sono presenti tutti i dati
1405:             begin
1406:                 PBcomputing(Sender);
1407:             end;
1408:
1409:         PBComputing(Sender);
1410:
1411:         with ABSTable1 do //carica il log con i nuovi dati al Carico Carburante
1412:         begin
1413:             Insert;
1414:             FieldByName('speed').AsString:=myini.ReadString('settings','speed','');
1415:             FieldByName('cons').AsString:=myini.ReadString('settings','consump','');
1416:             FieldByName('Rate').AsString:=myini.ReadString('settings','rate','');
1417:             FieldByName('MaxTnk').AsString:=myini.ReadString('resource','tank','');
1418:             FieldByName('Actual').AsString:=myini.ReadString('resource','Actual','');
1419:             FieldByName('AddFuel').AsString:=myini.ReadString('data','filling','');
1420:             FieldByName('AddHrs').AsString:=myini.ReadString('data','hours','');
1421:             FieldByName('CumFuel').AsString:=myini.ReadString('data','CumFill','');

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1422:     FieldByName('PartFuel').AsString:=myini.ReadString('data','PartFill','');
1423:     FieldByName('LFcons').AsString:=myini.ReadString('data','LastFcons','');
1424:     FieldByName('LastFill').AsString:=edit10.Text;
1425:     FieldByName('LastHrs').AsString:=edit12.text;
1426:     FieldByName('PrevFHrs').AsString:=myini.ReadString('data','PrevTPHrs','');
1427:     FieldByName('HrsCalc').AsString:=myIni.ReadString('data','HrsCalc','');
1428:     FieldByName('LtrTUp').AsString:=edit11.text;
1429:     Post;
1430: end;
1431:
1432:         evento:=CheckBox1.OnClick;
1433:         Checkbox1.OnClick:=nil;
1434:         checkbox1.Checked:=False;
1435:         Checkbox1.OnClick:=evento;
1436:
1437:     end;
1438: End;
1439:
1440: procedure TForm1.Edit5Enter(Sender: TObject);
1441: begin
1442:     showmessage('Cannot enter data here. ');
1443:     exit;
1444: end;
1445:
1446: // sp velocità
1447: // rb coefficiente 1 2 0 : + - =
1448: //rt variazione
1449: //rtc variazione calcolata
1450: //cn consumo in l/H
1451: //brnd gasolio consumato
1452: //flag1 anti doppio inserimento
1453: //atk actual tank
1454:
1455:
1456:     // inserisce le ore motore fatte
1457: procedure TForm1.Edit6KeyPress(Sender: TObject; var Key: Char);
1458: var
1459:     HrsPrecedente:string;
1460: begin
1461:     if (Key = '.') OR (key = ',') then //controllo del tasto decimale
1462:         if punto = mydecimal then
1463:             key:= punto else key := virgola ;
1464:     if key=#13 then //inserimento ore di motore
1465:     begin
1466:         CopyFile('Diesel.ini','Diesel.tmp',false); //copia ini per UNDO
1467:         edit6.Color:=clYellow;
1468:         edit12.Color:=clCream;
1469:         flag1:=True; //anti doppio inserimento
1470:         if strtofloat(MyIni.ReadString('data','hours',''))<> 0
1471:             then Edit12.text := MyIni.ReadString('data','hours','') else //se non c'è un valore
1472:             Edit12.Text := edit14.Text;//caso prima tappa = dato di partenza ore motore
1473:         HrsPrecedente:=Edit12.Text;
1474:         if strtofloat(edit12.text)>= strtofloat(Edit6.text) then
1475:             begin
1476:                 showmessage('ATTENTION Invalid value ! redo');
1477:                 edit6.Text:='';
1478:                 SendMessage(edit6.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
1479:                 self.ActiveControl:=nil;
1480:                 exit;
1481:             end;
1482:         myini.WriteString('data','hours',edit6.Text);
1483:         edit12.Text:=MyIni.ReadString('data','hours',''); //stored data
1484:         SendMessage(edit6.Handle, WM_KILLFOCUS,0,0); //toglie il prompt
1485:         self.ActiveControl:=nil;
1486:         //CALCOLO DEL CONSUMO
1487:         //calcolo del nuovo atk :serbatoio attuale
1488:         if (radiobutton2.Checked=True) then
1489:             if (Edit18.Text<>'') then //consumo calcolato dal pieno
1490:                 cn:= strtofloat(edit18.Text) else //cn è il consumo orario
1491:             begin
1492:                 ShowMessage('Data missing, cannot use this method !');
1493:                 Exit;

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```
1494:         end;
1495:
1496: if (RadioButton3.Checked=True) then
1497:     if (Edit15.Text<>'') then //consumo calcolato dai giri
1498:         cn:= strtofloat(edit15.Text) else //cn è il consumo orario
1499: begin
1500:     ShowMessage('Data missing, cannot use this method !');
1501:     Exit;
1502: end;
1503:
1504: H:= strtofloat(edit6.text)-strtofloat(HrsPrecedente); //differenza tra ore motore
1505: if rb=1 then //peggiorativo
1506:     begin
1507:         rtc:=(rt/100)+1; // moltiplicatore dell'indice percentuale scelto
1508:         brnd:= H*cn*rtc;
1509:         atk:=atk-brnd;
1510:         BRNED:=True;
1511:     end else //migliorativo
1512: if rb=2 then
1513:     begin
1514:         rtc:=(rt/100)+1;
1515:         brnd:= (H*cn)/rtc;
1516:         atk:=atk- brnd;
1517:         BRNED:=True;
1518: end else
1519:     begin
1520:         brnd:= H*cn;
1521:         atk:=atk - brnd;
1522:         BRNED:=True;
1523:     end;
1524: // Scrive il dato del carburante rimasto
1525: myini.WriteString('resource','actual', formatfloat('#.##',atk));
1526: if checkbox2.Checked=True then
1527:     begin
1528:         dato1:=myini.ReadString('resource','actual','');
1529:         riserva:=myini.readString('resource','reserve','');
1530:         dato2:= FloatToStr(strToFloat(dato1)-strToFloat(riserva));
1531:         edit8.text:=dato2;
1532:     end else
1533: edit8.Text:=formatfloat('#.##',atk);
1534: PBcomputing(sender);
1535: edit6.text:='';
1536: rng:=atk*sp/cn;
1537: tempo:=strtofloat(myini.ReadString('data','burned','')); //stored used diesel
1538: tempo:=tempo+brnd;
1539: myini.WriteString('data','burned',formatFloat('#.##',tempo)); //scrive il nuovo burned
1540: myini.WriteString('data','range',formatfloat('#',rng));
1541: edit13.Text:= myini.ReadString('data','burned',''); //scrive il nuovo burned sul form
1542: if checkbox2.Checked=True then
1543:     begin
1544:         dato1:=myini.ReadString('resource','actual','');
1545:         riserva:=myini.readString('resource','reserve','');
1546:         atk:= (strToFloat(dato1)-strToFloat(riserva));
1547:         if atk<=0 then
1548:             begin
1549:                 if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
1550:                     mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1551:                     begin
1552:                         checkbox2.Checked:=False;
1553:                         exit;
1554:                     end;
1555:                 end;
1556:                 edit9.text:= FormatFloat('###0',atk*sp/cn2);
1557:                 edit20.Text:=FloatToStr(cn2);
1558:             end else
1559: edit9.Text:=myini.ReadString('data','range',''); //stored data
1560: edit20.Text:=FloatToStr(cn);
1561: brnd:=0;
1562: tempo:=0;
1563: edit16.Text:='';
1564: radioButton7.Checked:=True;
1565: radioButton1.Checked:=True;
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1566: myini.WriteString('settings','rate',floatToStr(cn)); //scrive su ini il nuovo rate di con
sumo
1567: cn:=strtof(float(edit2.Text)); //ricrea la costante del consumo
1568:
1569:         with ABSTable1 do      //registra il LOG al carico delle nuove ORE MOTORE
1570:         begin
1571:             Insert;
1572:             FieldByName('speed').AsString:=myini.ReadString('settings','speed','');
1573:             FieldByName('cons').AsString:=myini.ReadString('settings','consump','');
1574:             FieldByName('Rate').AsString:=myini.ReadString('settings','rate','');
1575:             FieldByName('MaxTnk').AsString:=myini.ReadString('resource','tank','');
1576:             FieldByName('Actual').AsString:=myini.ReadString('resource','Actual','');
1577:             FieldByName('AddFuel').AsString:=myini.ReadString('data','filling','');
1578:             FieldByName('AddHrs').AsString:=myini.ReadString('data','hours','');
1579:             FieldByName('CumFuel').AsString:=myini.ReadString('data','CumFill','');
1580:             FieldByName('PartFuel').AsString:=myini.ReadString('data','PartFill','');
1581:             FieldByName('LFcons').AsString:=myini.ReadString('data','LastFcons','');
1582:             FieldByName('LastFill').AsString:=edit10.Text;
1583:             FieldByName('LastHrs').AsString:=edit12.text;
1584:             FieldByName('PrevFHrs').AsString:=myini.ReadString('data','PrevTPHrs','');
1585:             FieldByName('LtrTUp').AsString:=edit11.text;
1586:             Post;
1587:         end;
1588:
1589:     end;
1590:
1591: end;
1592:
1593: procedure TForm1.Edit6MouseEnter(Sender: TObject);
1594: begin
1595:     if edit12.Color = clwindow then
1596:
1597:         edit12.Color:=clLime;
1598: end;
1599:
1600: procedure TForm1.Edit6MouseLeave(Sender: TObject);
1601: begin
1602:     if edit12.Color = clLime then
1603:
1604:         edit12.Color:=clwindow;
1605: end;
1606:
1607: procedure TForm1.Button6Click(Sender: TObject); //Done
1608: begin
1609:     MyIni.free;
1610:     ABSTable1.close;
1611:     ABSDatabase1.Close;
1612:     Form1.release;
1613:     application.Terminate;
1614: end;
1615:
1616: procedure TForm1.Button7Click(Sender: TObject);
1617: begin
1618:     myini.WriteString('data','burned',FormatFloat('0',0));
1619:     edit13.Text:=Myini.ReadString('data','burned',''); //stored data
1620: end;
1621:
1622: procedure TForm1.Button8Click(Sender: TObject);
1623: begin
1624: if Dialogs.MessageDlg('ATTENTION You are going to modify the estimated SETTINGS, continue ?',
1625:     mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
1626:     exit;
1627:     Flag2:=true; //reset dei dati di uso corrente
1628:     SPD:=False;
1629:     CNS:=False;
1630:     RTE:=False;
1631:     ALRM:=False;
1632:
1633: Button1click(Sender);
1634: end;
1635:
1636: procedure TForm1.Button9Click(Sender: TObject); //RESET
```

```
1637: begin
1638:
1639:     if Dialogs.MessageDlg('ATTENTION You are going to reset ALL data (Except Log !), continue
? ',
1640:     mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
1641:         exit;
1642:
1643:         myini.WriteString('data','burned',FormatFloat('###0.0',0));
1644:         myini.WriteString('data','range',FormatFloat('###0.0',0));
1645:         myini.WriteString('data','LastTpHrs',FormatFloat('###0.0',0));
1646:         myini.WriteString('data','PrevTpHrs',FormatFloat('###0.0',0));
1647:         myini.WriteString('data','hours',FormatFloat('###0.0',0));
1648:         myini.WriteString('data','filling',FormatFloat('###0.0',0));
1649:         myini.WriteString('data','CumFill',FormatFloat('###0.0',0));
1650:         myini.WriteString('data','PartFill',FormatFloat('###0.0',0));
1651:         myini.WriteString('settings','speed',FormatFloat('###0.0',0));
1652:         myini.WriteString('settings','consump',FormatFloat('###0.0',0));
1653:         myini.WriteString('settings','rate',FormatFloat('#0',0));
1654:         myini.WriteString('settings','engstart',FormatFloat('###0.0',0));
1655:         myini.WriteString('settings','fuelBase',FormatFloat('###0.0',0));
1656:         myini.WriteString('settings','alarm',FormatFloat('###0.0',0));
1657:         myini.WriteString('resource','tank',FormatFloat('###0.0',0));
1658:         myini.WriteString('resource','actual',FormatFloat('###0.0',0));
1659:         myini.WriteString('resource','reserve',FormatFloat('###0.0',0));
1660:         myini.WriteString('data','PP',FormatFloat('###0.0',0));
1661:         myini.WriteString('data','LastFcons','NA');
1662:         myini.WriteString('data','HrsCalc',FormatFloat('###0.0',0));
1663:         myini.WriteString('data','pieno','0');
1664:         pieno:=0;
1665:         brnd:=0;
1666:         tempo:=0;
1667:         rb:=0;
1668:         atk:=0;
1669:         riserva:='';
1670:         PBComputing(sender);
1671:         SPD:=False;
1672:         CNS:=False;
1673:         RTE:=False;
1674:         TNK:=False;
1675:         TNKAC:=False;
1676:         ENGSTRT:=False;
1677:         ALRM:=False;
1678:         BRNED:=False;
1679:         FILLED:=False;
1680:         flag1:=False;
1681:         flag2:=False;
1682:         edit9.Text:=myini.ReadString('data','range',''); //stored data
1683:         edit10.Text:=myini.ReadString('data','filling',''); //stored data
1684:         edit12.Text:=MyIni.ReadString('data','hours',''); //stored data
1685:         edit13.Text:=Myini.ReadString('data','burned',''); //stored data
1686:         edit5.Text:=Myini.ReadString('data','LastTpHrs',''); //stored data
1687:         edit19.Text:=Myini.ReadString('data','PrevTpHrs',''); //stored data
1688:         edit1.text:=myini.ReadString('settings','speed','');
1689:         edit2.text:=myini.ReadString('settings','consump','');
1690:         edit3.text:=myini.ReadString('settings','rate','');
1691:         edit7.text:=myini.ReadString('resource','tank','');
1692:         edit8.text:=myini.ReadString('resource','actual','');
1693:         edit14.Text:=myini.ReadString('settings','engstart','');
1694:         edit17.Text:=myini.ReadString('data','CumFill','');
1695:         edit11.Text:=myini.ReadString('data','PartFill','');
1696:         edit18.Text:=myini.ReadString('data','LastFcons','');
1697:         edit15.Text:='0';
1698:         edit4.Text:='0';
1699:         edit20.Text:=zerostr;
1700:         label26.Caption:='';
1701: end;
1702:
1703: procedure TForm1.Button10Click(Sender: TObject); //RESET del LOG
1704: begin
1705:     if Dialogs.MessageDlg('You are going to EMPTY the Entry Log, continue ?',
1706:     mtConfirmation, [mbYes, mbNo], 0, mbNo) = mrNo then
1707:         exit else
```



```

1708:     ABSTable1.Close;
1709:     ABSDatabase1.Close;
1710:     ABSTable1.EmptyTable;
1711:     ABSDatabase1.Open;
1712:     ABSTable1.Open;
1713: end;
1714:
1715: procedure TForm1.CheckBox1Click(Sender: TObject);
1716:     //Att.settare CKBox implica un OnClick event
1717: begin
1718:     if Dialogs.MessageDlg('Do you mean FULL TANK ? ',
1719:         mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNo then
1720:     begin
1721:         // fermo l'evento onClick
1722:         evento:=CheckBox1.OnClick; // disattivo onClick
1723:         Checkbox1.onClick:=nil; // cambio checkbox1 e
1724:         checkbox1.Checked:=False; // riattivo l'evento
1725:         Checkbox1.OnClick:=evento;
1726:         exit;
1727:     end else
1728:     begin
1729:         evento:=CheckBox1.OnClick; // disattivo onClick
1730:         Checkbox1.onClick:=nil; // cambio checkbox1 e
1731:         checkbox1.Checked:=True; // riattivo l'evento
1732:         Checkbox1.OnClick:=evento;
1733:         Button2click(Sender);
1734:     end;
1735: end;
1736:     // gestione del dato di riserva carburante
1737: procedure TForm1.CheckBox2Click(Sender: TObject);
1738: begin
1739:     riserva:=myini.ReadString('resource','reserve','');
1740:     if Checkbox2.Checked=True then
1741:     begin
1742:         checkbox2.Color:=clRed;
1743:         if riserva>FloatToStr(0) then //c'è la riserva
1744:         begin
1745:             if Dialogs.MessageDlg('Confirm Fuel reserve = '+riserva,
1746:                 mtConfirmation, [mbYes, mbNo], 0, mbNo) = mrNo then //se corregge il dat
o di riserva
1747:             begin
1748:                 repeat
1749:                     riserva:=inputbox('Fuel reserve','Enter fuel reserve in liters (0 fo
r none) ','');
1750:                     until riserva <> '';
1751:                     ShowMessage('Fuel reserve is '+riserva);
1752:                     myini.WriteString('resource','reserve',riserva);
1753:                 end;
1754:             end else //se non c'è un dato di riserva
1755:             begin
1756:                 repeat
1757:                     riserva:=inputbox('Fuel reserve','Enter fuel reserve in liters (0 for none)
','');
1758:                     until riserva >= FloatToStr(0);
1759:                     ShowMessage('Fuel reserve is '+riserva);
1760:                     myini.WriteString('resource','reserve',riserva);
1761:                 end;
1762:             end;
1763:             dato1:=myini.ReadString('resource','actual','');
1764:             riserva:=myini.readstring('resource','reserve','');
1765:             dato2:= FloatToStr(strToFloat(dato1)-strToFloat(riserva));
1766:             if dato2<=floattostr(0) then
1767:             begin
1768:                 if Dialogs.MessageDlg('WARNING - Tank value negative or null. Continue ?',
1769:                     mtConfirmation, [mbYes, mbNo], 0, mbYes) = mrNO then
1770:                 begin
1771:                     checkbox2.Checked:=False;
1772:                     exit;
1773:                 end;
1774:             end;
1775:             edit8.text:=dato2;
1776:

```

```
1777:         end else //se viene tolto il check
1778:             begin
1779:                 checkbox2.Color:=clSkyBlue;
1780:                 edit8.text:=myini.ReadString('resource','actual','');
1781:             end;
1782:         PBComputing(Sender);
1783:     end;
1784:
1785: procedure TForm1.ComboBox1Change(Sender: TObject);
1786: begin
1787:     edit16.Text:='';
1788:     edit15.Text:='';
1789: end;
1790:
1791: end.
1792:
1793:
```