



Plausibility scanning Plant 31 (Russia)



SEATBELTS

TAKATA Prod.label:

| | | | |
|-----------------------------|--|---|--|
| (P) 2190-8217020 | | JSC AVTOVAZ | |
| Quantity: (Q) 16 | | Description SBOU-AVT-2190-FTR-C7R | |
| Supplier Code (V) 80043 | | Supplier part no. (SOS) 307745299001-AH | |
| Label no. (S) 659008015 | | Lot no. (H) 316590080015 | |
| Production date D160714 | | CW 28 | |
| Supplier Name TAKATA RUSSIA | | | |

VDA-label (Faurecia, Gaz)

| | | | |
|--|--|----------------------------------|--|
| FAURECIA ST PETERBUR SAINT-PETERSBURG | | 300 TAKATA RUS LLC UL'JANOVSK | |
| 4003141 | | 6 7 1 | |
| 1574780X-G0 | | 308813399JN7-AD SBOU-NI-P32R-C | |
| 8 | | D150124 | |
| 23000115 | | | |

AvtoVAZ portal label

| | | | |
|------------------|--|------------------|--|
| TAKATA | | TAKATA | |
| 21900-8217020-00 | | 21900-8217020-00 | |
| РЕМЕНЬ БЕЗ ПЕР | | РЕМЕНЬ БЕЗ ПЕР | |
| 15-07-2014 | | 15-07-2014 | |
| 90043224 | | 90043224 | |
| 000 | | 000 | |
| 603780543101 | | 603780543101 | |

Nissan portal label

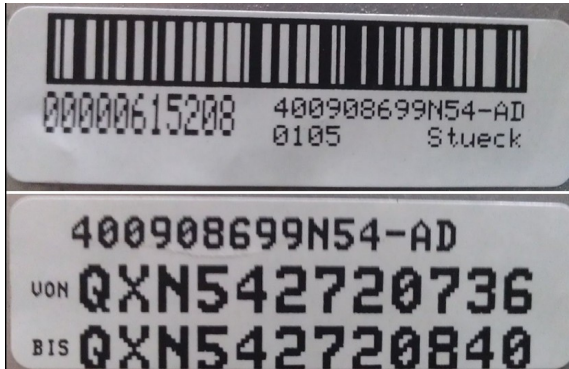
| | |
|--------------------|--|
| XT32 | |
| RRLCB64 | |
| 868854CM3A | |
| 4 | |
| BELT ASSY-TONGUE P | |
| 868854CM3A | |
| D150110 | |

Problem:

Unlike other customer labels AutoVAZ portal label doesn't contain index "P" inside customer part-number barcode

AIRBAGS

TAKATA HLKZ label:



Problems:

- 1) Plausibility is impossible with current HLKZ label layout
Need to develop another one.
- 2) Unlike other customer labels AutoVAZ portal label doesn't contain index "P" inside customer part-number barcode

AvtoVAZ portal label

| Таблица | | Таблица | |
|---|-------|---|-------|
| 80043 | 08780 | 80043 | 08780 |
| TAKATA | | TAKATA | |
| 21910-8232010-00 МОДУЛЬ НАДУВН ПОДУШК БЕЗОП ВОД | | 21910-8232010-00 МОДУЛЬ НАДУВН ПОДУШК БЕЗОП ВОД | |
| Дата выпуска (01-10-2014) | | Дата выпуска (01-10-2014) | |
| 48 | | 48 | |
| 85334003 | | 85334003 | |
| 000 | | 000 | |
| 603836107501 | | 603836107501 | |

Renault AutoVAZ portal label

| Таблица | | Таблица | |
|------------|---------|------------|---------|
| 300CK0 | Таблица | Таблица | Таблица |
| TAKATA Rus | | TAKATA Rus | |
| M1-P09 | | M1-P09 | |
| 985705571R | | 985705571R | |
| 038359671 | | 038359671 | |
| 1 | | 1 | |
| 985705571R | | 985705571R | |
| 00275787 | | 00275787 | |

VDA-label

| T6L | | M25 | |
|---|--|-------------------------------------|--|
| CJSC RENAULT RUSSIA RU - 109316 Moscow | | 000 TAKATA RUS LLC 432071 ULJANOVSK | |
| 80 | | 225 | |
| 985102657R | | 985102657R | |
| 80 | | 80 | |
| 0027578701 | | 0027578701 | |
| 273000018 | | 273000018 | |
| D141001 | | D141001 | |

STEERING WHEELS

TAKATA mabes label:

| | |
|---|---|
| FREI / FREE LIBER | |
| 31 Product Delivery Slip | 31 Product Delivery Slip |
| Ersteller: 2532 AUTOVAZ2 Assembly AvtoVAZ Slip-ID: | Ersteller: 2532 AUTOVAZ2 Assembly AvtoVAZ Slip-ID: |
|  |  |
| 307 6441 99 X92 -AD | 307 6441 99 X92 -AD |
| STW-AVT-LADA 2190-PUR | STW-AVT-LADA 2190-PUR |
| Quantity: 36 ST | Quantity: 36 ST |
| Date of Production: 2.10.2014 | Date of Production: 2.10.2014 |
| Receive Slip | |
| AUTOVAZ2 Assembly AvtoVAZ Slip-ID:  | |
| 307644199X92-AD | |
| STW-AVT-LADA 2190-PUR | |
| Quantity: 36 ST | |
| Date of Production: 2.10.2014 | |
| DUPLICATE | |

AutoVAZ portal label

| | | | |
|---|---------------------|---|---------------------|
| TAKATA | | TAKATA | |
| Точка учета 80043 | Получатель 08780 | Точка учета 80043 | Получатель 08780 |
| 21910-3402018-00 КОЛЕСО РУЛЕВОЕ СБ | | 21910-3402018-00 КОЛЕСО РУЛЕВОЕ СБ | |
| Дата изготовления/подписи 01-10-2014 | | Дата изготовления/подписи 01-10-2014 | |
| 36 | | 36 | |
| 83556086 | | 83556086 | |
| 000 | | 000 | |
| 603836107401 | | 603836107401 | |

VDA-label

| | | | |
|--------------------------------------|--|-------------------------------------|--|
| T6L | | M25 | |
| 000 AUTOFRAMOS RU - 109316 Moscow | | 000 TAKATA RUS LLC 432071 ULJANOVSK | |
| 108 | | 254 | |
| 1 | | 1 | |
| 985109886R | | 90 | |
| 0027578701 | | 307572599N54-AC | |
| 142000037 | | D140522 | |

Renault AutoVAZ portal label

| | | | | | |
|--|--|------------|--|------------|--|
| 000 AUTOVAZ TOGLIATTI, 36 YUDIKHOYE SHOSSE | | 300CKO | | TAKATA Rus | |
| M1-P02 | | 60 | | 201.800 | |
| 484008023R | | D141001 | | 00275787 | |
| 038359686 | | 484008023R | | 00275787 | |

Problems:

1) Unlike other customer labels AutoVAZ portal label doesn't contain index "P" inside customer part-number barcode

2) Unlike other TAKATA labels TAKATA part-number on MABES label doesn't contain index "P"

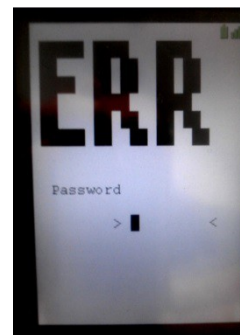
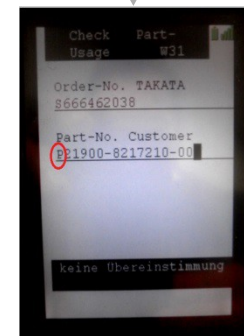
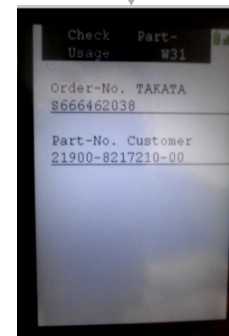
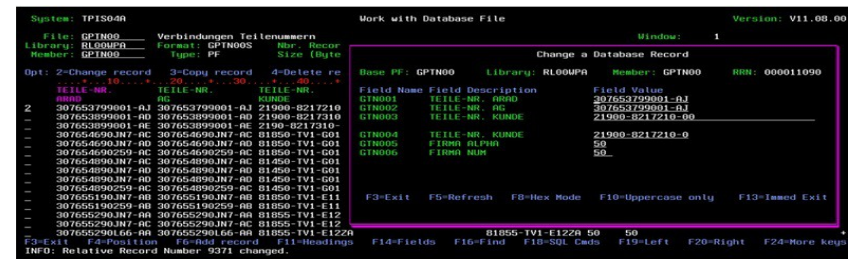
Program algorithm:

1. Input of production order number from TAKATA label with index "S" and 3 extra digits
2. Input of customer part-number from customer label with index "P"
3. Program access to "Database" and validation -> Feedback (Ok or Error)

Problems:

- 1) Program doesn't work with AutoVAZ customer labels as they don't contain index «P» inside customer partnumber barcodes
- 2) Production order format inside TAKATA seatbelt label is not compatible with SW mabes labels and AB HLKZ labels (it contains index "S" and three additional digits)

"Database" matching TAKATA seatbelt part-numbers with customer reference part-numbers



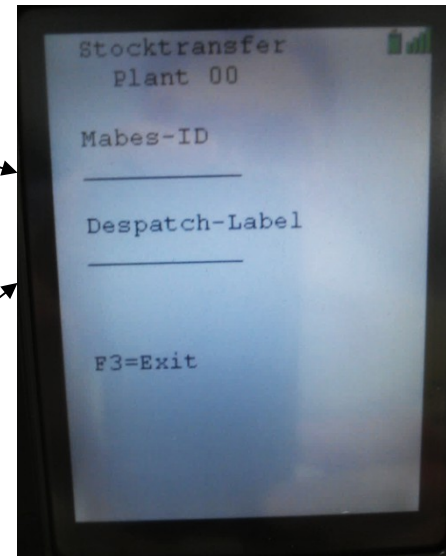
Operator should scan mabes-ID from the mabes label (ex. "NA1E0348MU") and then labels sequence number (ex. "142000037") and confirm it with Enter

SW mabes label

Two examples of SW mabes labels. The top one is a 'Product Delivery Slip' with fields for 'FREI / FREE LIBER', '31 Product Delivery Slip', 'Ersteller: 2032', 'AVTOMAZ Assembly Antares', '307 6441 99 X92 AD', 'Quantity: 36 ST', 'Date of Production: 2.10.2014', and 'Receive Slip'. The bottom one is a 'Duplicate' label with fields for '307644199X92-AD', 'STW-AUT-SADA 2190-PUR', 'Quantity: 36 ST', and 'Date of Production: 2.10.2014'.

A VDA-label with fields for 'Destination: OAO AVTOFRAMOS', 'T6L', 'Lot No. M25', '000 TAKATA RUS LLC 432071 ULJANOVSK', '108', '254', '1', '985109886R', '90', '0027578701', '142000037', 'STW-RE-H79RU-PUR', '307572599N54-AC', and 'D140522'.

VDA-label



OK
If matching

Error
If mismatch

Problems:

- 1) Program works well only with VDA-labels from AS400 and doesn't recognise any other labels printed out from customer web-portals (AvtoVAZ, Nissan, Renault Avtovaz).
- 2) Program was developed only for mabes, so neither database nor production order IDs are not compatible with airbags and seatbelts masterdata.

2 Plausibility programs for 3 product groups:

AutoVAZ
AB, SB, SW

AutoVAZ plausibility

| Check part-usage Plant 31 | | |
|---------------------------|--|--|
| Part-No TAKATA | | |
| <u>P307745299001-AH</u> | | |
| Part-No Customer | | |
| <u>2190-8217020</u> | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

No index "P"
required

VDA-plausibility for VDA-labels and customer portal labels

VDA and
customer labels

| Check part-usage Plant 31 | | |
|----------------------------|--|--|
| Part-No TAKATA | | |
| <u>P308812899JN7-AF</u> | | |
| Part-No Customer | | |
| P <u>868854CM3A</u> | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

OK
If matching

Error
If mismatch

Requirements:

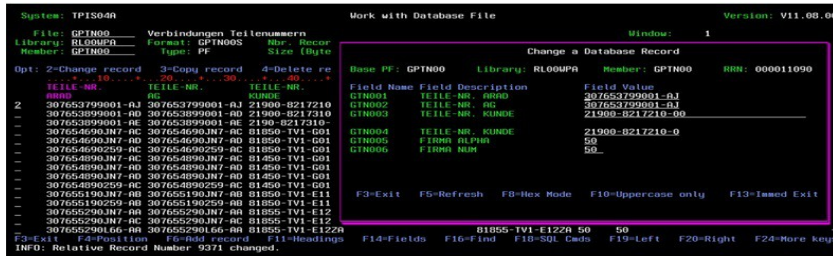
- 1) Programs should work only if HLKZ label has the following layout *(now it doesn't)*



- 2) Programs should work only if TAKATA part-number on mabes label contains index "P" *(now it doesn't)*



1) Create a common database matching TAKATA SB, AB, SW part-numbers with customer reference part-numbers



The screenshot displays a database management system interface. The top bar shows 'System: TP150-00', 'Work with Database File', and 'Version: V11.00.00'. Below this, there are fields for 'File: GPTN00', 'Library: RL00UPR', and 'Member: GPTN00'. A table of records is shown with columns for 'Field Name', 'Field Description', and 'Field Value'. The records are as follows:

| Field Name | Field Description | Field Value |
|------------|-------------------|------------------|
| GTH001 | TEILE-NR. AB | 307653799001-AB |
| GTH002 | TEILE-NR. AC | 307653799001-AC |
| GTH003 | TEILE-NR. KUNDE | 21909-8217210-00 |
| GTH004 | TEILE-NR. KUNDE | 21909-8217210-0 |
| GTH005 | FIRMA NAME | 50 |
| GTH006 | FIRMA NUM | 50 |

At the bottom, there are function keys: F3=Exit, F5=Refresh, F8=Hex Mode, F10=Uppercase only, and F13=Immed Exit. The status bar at the very bottom indicates 'INFO: Relative Record Number 9371 changed.'

2) Negotiate and implement new HLKZ label layout with HLKZ team

3) Negotiate and implement new mabes label change (with index "P" in TAKATA part-number barcode) (*cooperation with GEFIS requires payments*)

4) New programs development in cooperation with TAKATA application team.



Thank you for your attention!