

PHONE: 1-866-2WARREN

Web: warrencat.com Email: FluidsLab@WarrenCAT.com

HYDRAULIC SYSTEM

E459-55133-1024

SAMPLE SHIP TIME (days) : 5

RAGLE INC

RECEIVED DATE: 13-May-25

EQUIP NUM: S522 **CAT 279D**

SERIAL NUMBER: GTL04806





Interp By: William Babb Interpreted On: 14-May-25

SAMPLE CONTAINS A MODERATE AMOUNT OF FINE NONMAGNETIC DEBRIS. NORMAL WEAR METAL READINGS. MUCH DEBRIS TO RUN PARTICLE COUNT. OTHER READINGS APPEAR TO BE NORMAL. INSPECT OIL FILTER(S) FOR ANY EVIDENCE OF LARGER VISIBLE DEBRIS TRAPPED IN THE FILTER ELEMENT(S) SUGGEST INSTALLING HIGH EFFICIENCY FILTERS. CK SAMPLING PROCEDURE. CONTINUE NORMALLY SCHEDULED SAMPLING.

		SAMPLE INFORMATION	
		1	
Sampled Date	08-May-25	08-Apr-19	
Sample Id	E459-55133-1024	E130-49120-2007	
Lab Date	13-May-25	30-Apr-19	
Meter [Hr]	4965	190	
Comp Meter [Hr]		190	
Meter On Fluid	0	190	
Fluid Brand	UNKNOWN		
Fluid Weight	UNKNOWN		
Fluid Type			
Fluid Change	N	N	
Filter Change	N	Y	
Kidney Loop		U	
	0		

		ELEME.	ITAL ANALYSIS	
		08-May-25	08-Apr-19	
ELEM	ENTAL ANALYBIS (PF	M) ASTM D5185 (OIL	/ASTM D6130 [COOLANT]	
Cu	Copper	7	7	
Fe	iron	32	7	
Cr	Chromium	0	0	
AJ	Aluminum	3	1	
Pb	Lead	1	2	
Sn	Tin	0	0	
Si	Silicon	7	1	
Na	Sodium	4	0	
K	Potassium	7	0	
Mo	Molybdenum	1	1	
Ni	Nickel	0	0	
Ag	Silver	0	0	
Ti	Titanium	0		
v	Vanadium	0		
Ca	Calcium	267	91	
Р	Phosphorus	345	225	
Zn	Zinc	426	298	
Mg	Magnesium	17	3	
В	Boron	7	1	

122				KE	AOUS S	AMPL	E					
WEAR	PATTERN	APPEARS	TO	BE	NORMAL	. ON	A	FIRST	SA	MPLE	BASI	S BUT
THE	SAMPLE	SHOWS	Α	MODE	RATE	AMOUN	T	OF	FINE	DE	BRIS	THAT
PREVE	NTS PARTI	CLE COUN	IT F	ROM	BEING	TESTE	D.	CK	TO	SEE	1F	SAMPLE
THE REAL PROPERTY.	TAKEN H	OJ SY			T BE		100			ACCUR	ATE	SAMPLE

For additional sample history, go	to: S.O.S WEB
CONDITION-CONTAMIN	NATION-FORMULATION
08-May-25	08-Apr-19

		08-May-25	08-Apr-19	
VIBCO	SITY (CENTISTOKES)	STN D445		
V100	Viscosity at 100 C	6.56	6.0	

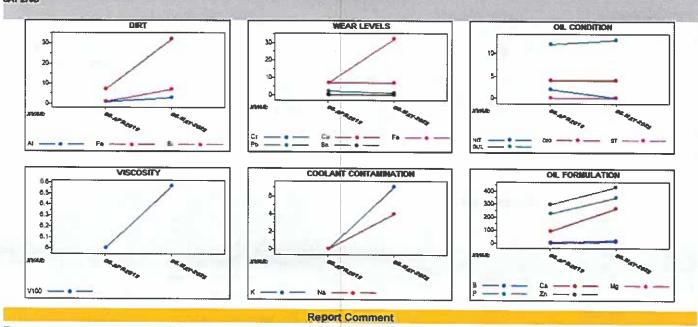
INFR/	RED (UFM) ASTM E2412	4500089		10000
ST	Soot	0	0	
OXI	Oxidation	4	4	
SUL	Sulfate By-Produc	13	12	
	Sulfur Products	13	12	
NIT	Nitration	0	2	

NIT	Nitration	0	2	
WAT	ER.			
W	Water	N	N	

ANTU	REEZE			
A	Antifreeze	N	N	

		CLEAN	LINESS	
		08-May-25	08-Apr-19	
PART	ICLE COUNT-180 1117	l:1999 reported per	180 4406	
ISO	ISO Code Reting	VP		





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BILLY MCKARIE RAGLE INC PO BOX 1130 EULES, TX 76039 USA



PHONE: 1-866-2WARREN

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FINAL DRIVE REAR

RIGHT

E459-55133-1172

SAMPLE SHIP TIME (days) : 5

RAGLE INC

RECEIVED DATE: 13-May-25

EQUIP NUM: S522 CAT 279D



SERIAL NUMBER: GTL04808

Interp By: Bailee Ford

Interpreted On: 14-May-25

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE CONTINUE SAMPLING AT THE NORMAL INTERVAL.

SAMPLE INFORMATION		

	7		
Sampled Date	08-May-25		
Sample Id	E459-55133-1172		
Lab Date	13-May-25		
Meter [Hr]	2584		
Meter On Fluid	0		
Fluid Brand	CAT		
Fluid Weight	30		
Fluid Type			
Fluid Change	U		
Filter Change	U		
Total Fluid Added	0		

PREVIOUS SAMPLE

For additional sample history, go to:

S.O.S WEB

CONDITION-CONTAMINATION-FORMULATION

08-May-25
VISCOSITY (CENTISTOKES) ASTM D446

V100 Viscosity at 100 C

21.5

0

INFRARED (UFN) ASTM E2412

Nitration

 ST
 Soot
 0

 OXI
 Oxidation
 66

 SUL
 Sulfate By-Produc
 68

NIT N

W Water N

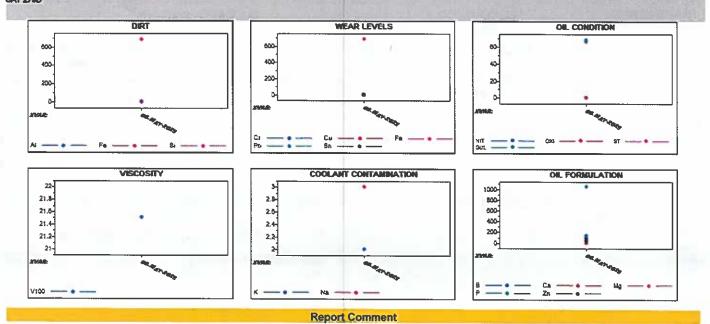
ELEMENTAL ANALYSIS

08-May-25

Cu	Copper	2	
Fe	Iron	682	
Cr	Chromium	7	
AI	Aluminum	2	
Pb	Lead	0	
Sn	Tin	0	
Şi	Silicon	8	
Na	Sodium	3	
K	Potassium	2	
Мо	Molybdenum	0	
Ni	Nickel	0	
Ag	Silver	0	
Ti	Titanium	0	
v	Vanadium	0	
Ca	Calcium	85	
Р	Phosphorus	1038	
2n	Zinc	30	
Mg	Magnesium	1	
В	Boron	129	

CLEANLINESS





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ENGINE

EQUIP NUM: S522

SERIAL NUMBER: GTL04606

E459-55133-1128

SAMPLE SHIP TIME (days) : 5

RAGLE INC

RECEIVED DATE: 13-May-25

CAT 279D

Interp By: Ballee Ford Interpreted On: 14-May-25

S.O.S WEB

NORMAL WEAR METAL READINGS. NO PROBLEMS PRESENTLY ASSOCIATED WITH THIS SAMPLE. CONTINUE SAMPLING AT THE NORMAL INTERVAL.

	4	SAMPLE INFORMATIO	
	-	-	
Sampled Date	08-May-25	08-Apr-19	
Sample Id	E459-55133-1128	E130-49120-1035	
Lab Date	13-May-25	30-Арг-19	
Meter (Hr)	4965	190	
Comp Meter [Hr]		190	
Meter On Fluid	0	190	
Fluid Brand	OTHER		
Fluid Weight	15W-40		
Fluid Type	VAL ALL		
Fluid Change	Y	Y	
Filter Change	Y	Y	
Kidney Loop		U	
	0		

		08-May-25	08-Apr-19	
ELEV	ENTAL ANALYSIS (PP	M) ASTM D5185 (OR	J ASTM D6180 (C	COOLANT)
Cu	Copper	1	13	
Fe	tron	12	15	
Cr	Chromium	0	1	
AI	Aluminum	2	2	
Pb	Lead	0	0	
Sn	Tin	0	0	
Si	Silicon	9	17	
Na	Sodium	4	6	
K	Potassium	2	1	
Мо	Molybdenum	83	38	
Ni	Nickel	0	0	
Ag	Silver	0	0	
Ti	Titanium	0		
V	Vanadium	1		
Ca	Calcium	1322	1978	
P	Phosphorus	931	923	
Zn	Zinc	1109	1095	
	***************************************	306	465	

43

303

Boron

ELEMENTAL ANALYSIS

			PREVIOUS	SAMPL	E			
FIRST	SAMPLE/NO	TREND	ESTABLISHED.	DATA	APPEARS	то	SHOW	NORMAL
BREAK-	IN WEAR, RES	AMPLE IN 2	50 HRS TO ESTABLE	SH A TRENE	0.			

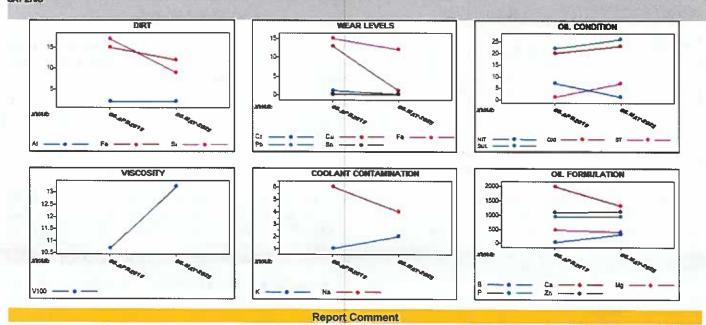
For additional sample history, go to:

		08-May-25	08-Apr-19
VISCO	SITY (CENTISTOKES) A	STM D445	
V100	Viscosity at 100 C	13.2	10.7

RED (UFM) ASTM E2412			
Soot	7	1	
Oxidation	23	20	
Sulfate By-Produc	26	22	
Sulfur Products	26	22	
Nitration	1	7	
	Soot Oxidation Sulfate By-Produc Sulfur Products	Soot 7 Oxidation 23 Sulfate By-Produc 26 Sulfur Products 26	Soot 7 1 Oxidation 23 20 Sulfate By-Produc 26 22 Sulfur Products 26 22

WAT	ER			F - 10 - 11	
W	Water	N	N		
ANTI	FREEZE			Denni energia	
A	Antifreeze	N	N		
FUE	L.		W 3-4	23-2	
F	Fuel	N	N		





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