

# **PROBLEM SUMMARY**



### Machine Id 108 (S/N 1XPBD49X7HD415615) Component

Diesel Engine

SHELL ROTELLA T4 15W40 (--- GAL)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ATTENTION	NORMAL	NORMAL		
Visc @ 100°C	cSt	ASTM D445	15	<u> </u>	13.6	12.8		

Customer Id: VULFLO Sample No.: PCA0089620 Lab Number: 05953626 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Fluid			?	Oil and filter change at the time of sampling has been noted.			
Change Filter			?	Oil and filter change at the time of sampling has been noted.			

# HISTORICAL DIAGNOSIS



# 12 Sep 2022 Diag: Don Baldridge

Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

### 18 Jul 2022 Diag: Jonathan Hester

#### NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



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# **OIL ANALYSIS REPORT**

# Sample Rating Trend VISCOSITY

# 108 (S/N 1XPBD49X7HD415615)

Diesel Engine

# SHELL ROTELLA T4 15W40 (--- GAL)

# DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

## Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

# Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0089620	PCA0079356	PCA0075572
Sample Date		Client Info		29 Aug 2023	12 Sep 2022	18 Jul 2022
Machine Age	mls	Client Info		869967	812114	792279
Oil Age	mls	Client Info		17470	19885	20421
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	historv1	history2
Clycol		WC Mathad		NEC	NEC	NEC
Giycol	_	WC Welliou		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>165	9	7	8
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2	1
Lead	ppm	ASTM D5185m	>150	<1	3	1
Copper	ppm	ASTM D5185m	>90	<1	0	<1
Tin	ppm	ASTM D5185m	>5	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		50	211	216
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		51	76	72
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		492	412	359
Calcium	ppm	ASTM D5185m		1803	1398	1469
Phosphorus	ppm	ASTM D5185m		804	932	938
Zinc	ppm	ASTM D5185m		1002	1180	1220
Sulfur	ppm	ASTM D5185m		3304	3173	3580
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>35	7	6	5
Sodium	ppm	ASTM D5185m		3	1	1
Potassium	ppm	ASTM D5185m	>20	2	4	1
Fuel	%	ASTM D3524	>3.0	0.1	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>7.5	0.3	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.4	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	23.3	23.3
FLUID DEGRAD		method	limit/base	current	historv1	historv2
Ovidation	Ahe/1mm	*ASTM D7/1/	<u>_25</u>	17 1	16.5	16.3
Base Number (BN)		ASTM D2806	10.1	8.0	8.0	7 1
Dase Number (DN)	niy KOR/y	A91101 D2030	10.1	0.0	0.0	1.1



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# **OIL ANALYSIS REPORT**





Sep12/22.

Certificate L2367



Contact/Location: DAVID VOUGHT - VULFLO