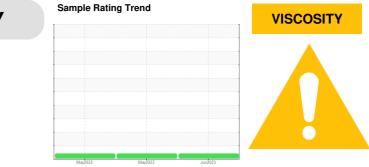
**PROBLEM SUMMARY** 

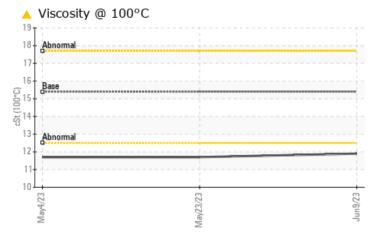


CHECK

# Machine Id 713028

Component Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- GAL)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status				ATTENTION	ATTENTION	ATTENTION				
Visc @ 100°C	cSt	ASTM D445	15.4	🔺 11.9	<b>11.7</b>	<b>11.7</b>				

Customer Id: GFL821 Sample No.: GFL0065448 Lab Number: 05872891 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> There are no recommended actions for this sample.

#### **HISTORICAL DIAGNOSIS**

### 23 May 2023 Diag: Sean Felton





#### 04 May 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



view report





# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 713028

# Component

Diesel Engine

# PETRO CANADA DURON SHP 15W40 (--- GAL)

# DIAGNOSIS

### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is no indication of any contamination in the oil.

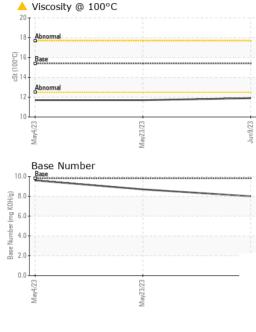
## Fluid Condition

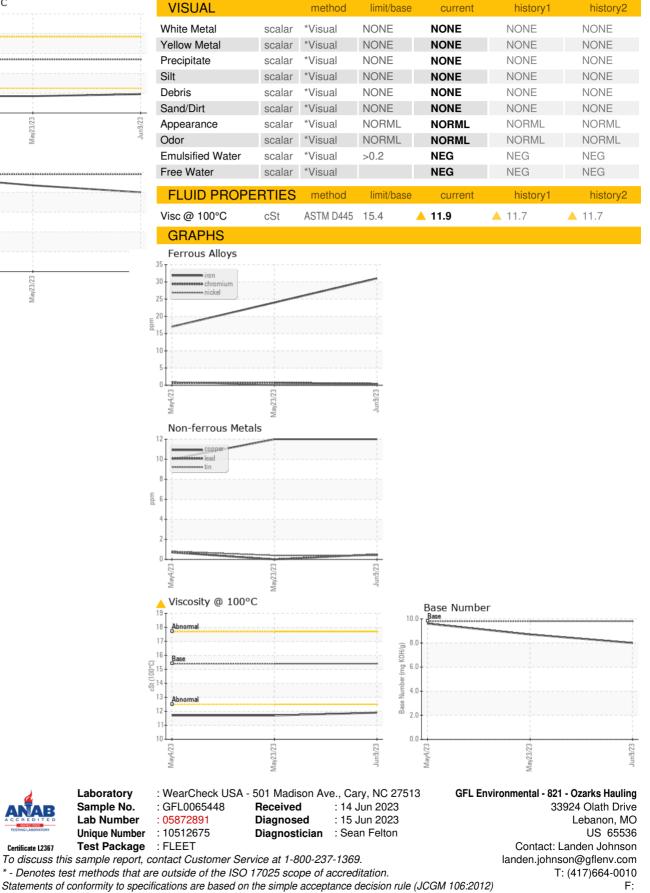
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0065448	GFL0076801	GFL0076845
Sample Date		Client Info		09 Jun 2023	23 May 2023	04 May 2023
Machine Age	hrs	Client Info		409	278	180
Oil Age	hrs	Client Info		409	200	180
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ATTENTION	ATTENTION	ATTENTION
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.9
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	6	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	31	24	17
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	<1	<1
Aluminum	ppm	ASTM D5185m		<1	2	2
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m		12	12	10
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	33	42	42
Barium	ppm	ASTM D5185m	0	0	2	2
Molybdenum	ppm	ASTM D5185m	60	47	45	43
Manganese	ppm	ASTM D5185m	0	5	5	5
Magnesium	ppm	ASTM D5185m	1010	854	852	846
Calcium	ppm	ASTM D5185m	1070	1268	1233	1197
Phosphorus	ppm	ACTM DE10Em				
		ASTM D5185m	1150	723	750	748
Zinc		ASTM D5185m	1150 1270	723 926	750 920	748 923
Zinc Sulfur	ppm ppm					
	ppm ppm	ASTM D5185m	1270	926	920	923
Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	1270 2060 limit/base	926 2782	920 2825	923 2927
Sulfur CONTAMINAN	ppm ppm FS	ASTM D5185m ASTM D5185m method	1270 2060 limit/base	926 2782 current	920 2825 history1	923 2927 history2
Sulfur CONTAMINANT Silicon	ppm ppm FS ppm	ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	1270 2060 limit/base	926 2782 current 16	920 2825 history1 15	923 2927 history2 15
Sulfur CONTAMINANT Silicon Sodium	ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	1270 2060 limit/base >25	926 2782 current 16 6	920 2825 history1 15 6	923 2927 history2 15 5
Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED	ppm ppm TS ppm ppm	ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	1270 2060 limit/base >25 >20	926 2782 current 16 6 4	920 2825 history1 15 6 2	923 2927 history2 15 5 2
Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED	ppm ppm <b>FS</b> ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	1270 2060 imit/base >25 >20 imit/base >3	926 2782 current 16 6 4 current	920 2825 history1 15 6 2 history1	923 2927 history2 15 5 2 history2
Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm FS ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1270 2060 imit/base >25 >20 imit/base >3	926 2782 current 16 6 4 current 0.4	920 2825 history1 15 6 2 2 history1 0.3	923 2927 history2 15 5 2 history2 0.2
Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm FS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> *ASTM D7844 *ASTM D7624	1270 2060 >25 >20 20 <u>limit/base</u> >3 >20	926 2782 current 16 6 4 current 0.4 11.0	920 2825 history1 15 6 2 2 history1 0.3 10.0	923 2927 history2 15 5 2 2 history2 0.2 8.6
Sulfur CONTAMINANT Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm FS ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844	1270 2060 >25 >20 limit/base >3 >20 >30	926 2782 current 16 6 4 current 0.4 11.0 21.9	920 2825 history1 15 6 2 history1 0.3 10.0 21.1	923 2927 history2 15 5 2 history2 0.2 8.6 21.0



# **OIL ANALYSIS REPORT**







Certificate L2367

Contact/Location: GFL821, GFL824 and GFL829 - Landen Johnson - GFL821