

# **PROBLEM SUMMARY**

# Sample Rating Trend

WEAR



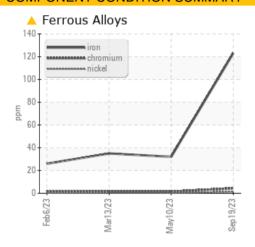


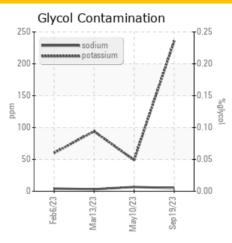
Machine Id 811067 Component

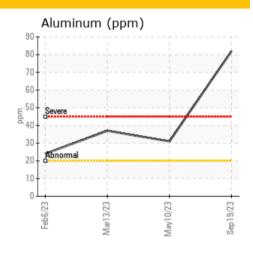
**Diesel Engine** 

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				ABNORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>120	<u> </u>	32	35

Customer Id: GFL844 Sample No.: GFL0080056 Lab Number: 05978696 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

# **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS

# 10 May 2023 Diag: Wes Davis

NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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.



#### 13 Mar 2023 Diag: Don Baldridge

NORMAL



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 acceptable for the time in service.



#### 06 Feb 2023 Diag: Don Baldridge

NORMAL



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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 acceptable for the time in service.





# **OIL ANALYSIS REPORT**

# Sample Rating Trend

# **WEAR**



Machine Id 811067 Component **Diesel Engine** 

**PETRO CANADA DUR** 

# **DIAGNOSIS**

#### Recommendation

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

Cylinder, crank, or cam shaft wear is indicated.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

#### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

N SHP 15W40 (	GAL)					
SAMPLE INFO	•	Feb202	3 Mar2023	May <sup>2</sup> 023 s <b>Current</b>	history1	history2
Sample Number		Client Info		GFL0080056	GFL0075019	GFL0069468
Sample Date		Client Info		19 Sep 2023	10 May 2023	13 Mar 2023
Machine Age	hrs	Client Info		5431	4636	4220
Oil Age	hrs	Client Info		160	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	<b>123</b>	32	35
Chromium	ppm	ASTM D5185m	>20	4	2	2
Nickel	ppm	ASTM D5185m	>5	1	<1	<1
Titanium	ppm	ASTM D5185m	>2	<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	82	31	37
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	14	<1	15
Tin	ppm	ASTM D5185m	>15	2	<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	22	<1	169
Barium	ppm	ASTM D5185m	0	14	0	1
Molybdenum	ppm	ASTM D5185m	60	106	67	109
Manganese	ppm	ASTM D5185m	0	10	1	7
Magnesium	ppm	ASTM D5185m	1010	913	1086	636
Calcium	ppm	ASTM D5185m	1070	1439	1219	1314
Phosphorus	ppm	ASTM D5185m	1150	888	1138	651
Zinc	ppm	ASTM D5185m	1270	1142	1398	820
Sulfur	ppm	ASTM D5185m	2060	2528	3505	2129
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		17	4	19
Cadhusa	10.10.100	ACTM DE10E		_	7	0

Base Number (BN) mg KOH/g ASTM D2896 9.8

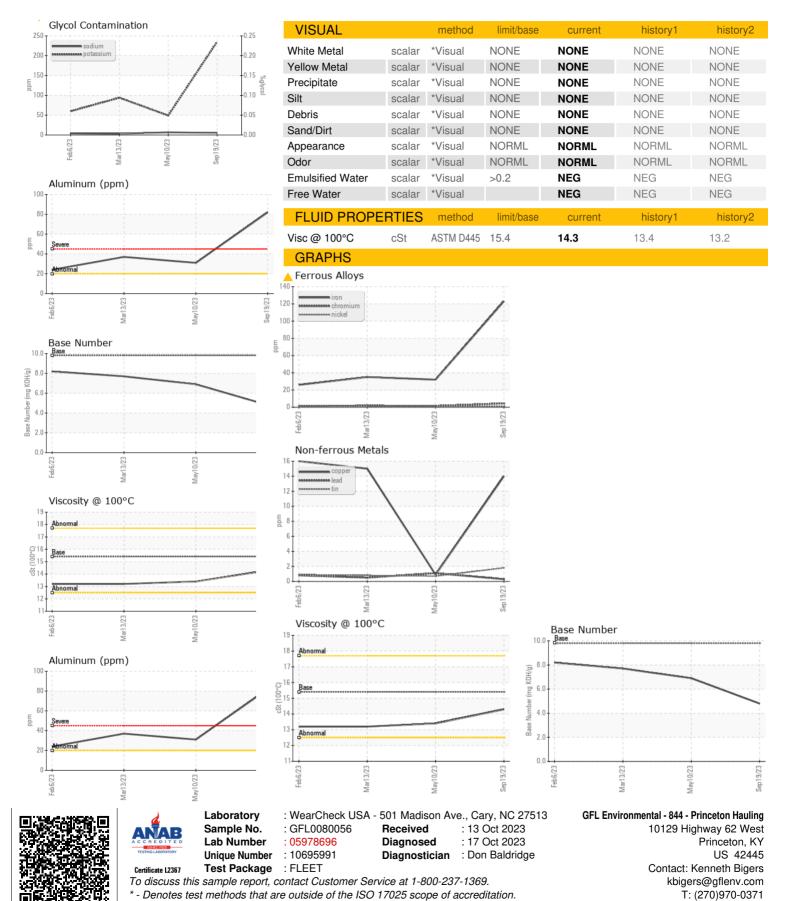
4.8

6.9

7.7



# **OIL ANALYSIS REPORT**



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)