

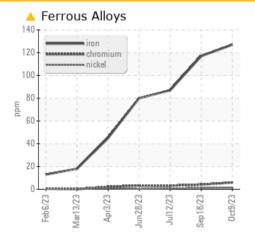
Sample Rating Trend WEAR

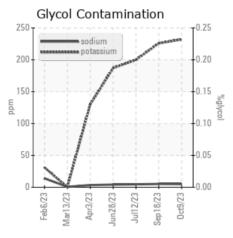


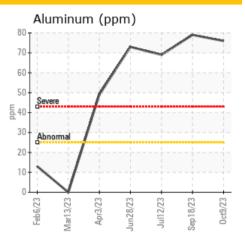
Machine Id 813077

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				ABNORMAL	ABNORMAL	NORMAL					
Iron	ppm	ASTM D5185m	>110	<u> </u>	🔺 117	87					
Chromium	ppm	ASTM D5185m	>4	<u> </u>	<u> </u>	3					

Customer Id: GFL844 Sample No.: GFL0080045 Lab Number: 05981830 Test Package: FLEET



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*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.

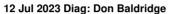
# **HISTORICAL DIAGNOSIS**

#### 18 Sep 2023 Diag: Don Baldridge

WEAR



Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.Cylinder, crank, or cam shaft wear is indicated. 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. 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.



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.

#### 28 Jun 2023 Diag: Wes Davis





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.



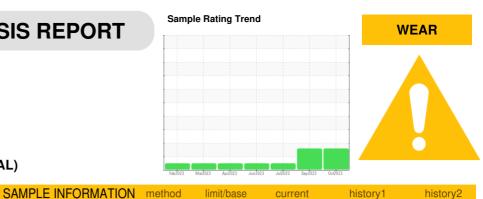


view report





# **OIL ANALYSIS REPORT**



# Machine Id 813077

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.

### A Wear

Cylinder, crank, or cam shaft wear is indicated.

# Contamination

Elevated aluminum (AI) 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.

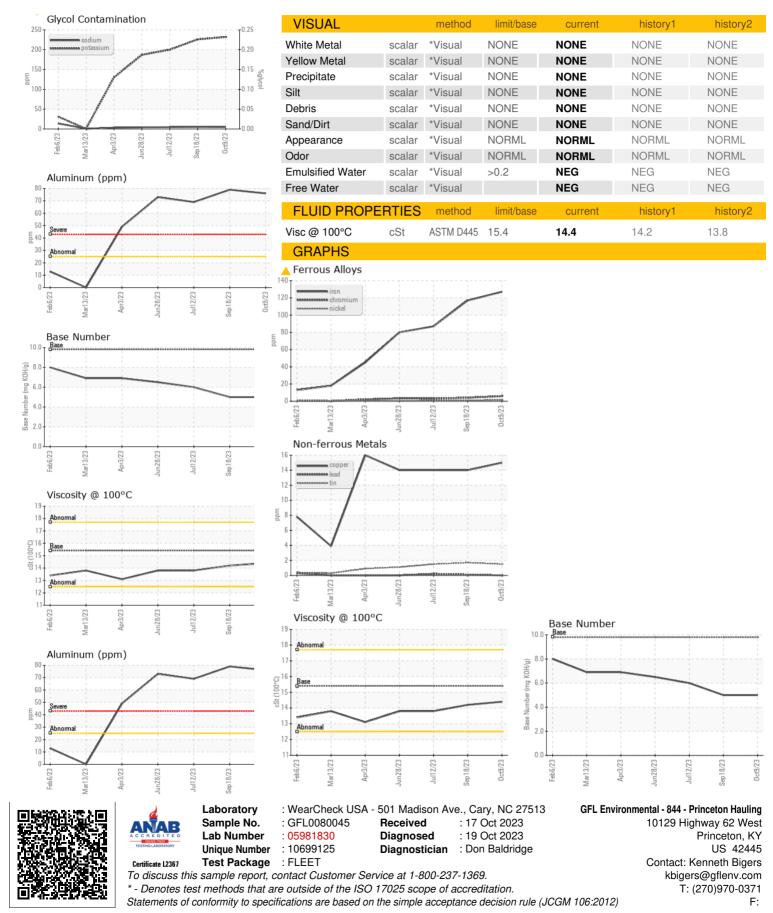
### Fluid Condition

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.

SAMELE INFOR		methou	IIIIII/Dase	Current	Thistory I	Thistory 2
Sample Number		Client Info		GFL0080045	GFL0080055	GFL0087086
Sample Date		Client Info		09 Oct 2023	18 Sep 2023	12 Jul 2023
Machine Age	hrs	Client Info		2061	1897	1437
Oil Age	hrs	Client Info		150	612	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>110	<b>A</b> 127	<b>1</b> 17	87
Chromium	ppm	ASTM D5185m	>4	<u> </u>	<u> </u>	3
Nickel	ppm	ASTM D5185m	>2	1	1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	76	79	69
Lead	ppm	ASTM D5185m	>45	0	<1	<1
Copper	ppm	ASTM D5185m	>85	15	14	14
Tin	ppm	ASTM D5185m	>4	2	2	2
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20	32	36
Barium	ppm	ASTM D5185m	0	0	14	0
Molybdenum	ppm	ASTM D5185m	60	107	109	110
Manganese	ppm	ASTM D5185m	0	9	9	9
Magnesium	ppm	ASTM D5185m	1010	905	916	882
Calcium	ppm	ASTM D5185m	1070	1384	1458	1533
Phosphorus	ppm	ASTM D5185m	1150	941	892	837
Zinc	ppm	ASTM D5185m	1270	1151	1143	1068
Sulfur	ppm	ASTM D5185m	2060	2804	2547	3035
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm		>30	17	17	16
Sodium	ppm	ASTM D5185m		5	5	5
Potassium	ppm	ASTM D5185m	>20	232	226	200
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.1	1	0.8
Nitration	Abs/cm	*ASTM D7624	>20	14.1	13.6	12.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	30.3	29.1	27.8
FLUID DEGRA		method	limit/base	current	history1	history2
FLUID DEGRAL	DATION Abs/.1mm	method *ASTM D7414	limit/base	current 29.6	history1 27.6	history2 25.4



# **OIL ANALYSIS REPORT**



Submitted By: Kenneth Bigers

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