

## **OIL ANALYSIS REPORT**

Sample Rating Trend

NORMAL



Area (BB06478) Machine Id 827M Component

Diesel Engine

PETRO CANADA DURON SHP 15W40 (36 QTS)

N SHP 15W40 (3	6 QTS)	Nov2023 D	lec2023 Dec2023 Jan20	24 Jan2024 Feb2024 Mar2024	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0104298	GFL0104361	GFL0110078
Sample Date		Client Info		07 Mar 2024	04 Mar 2024	13 Feb 2024
Machine Age	hrs	Client Info		15965	15905	15678
Oil Age	hrs	Client Info		600	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>130	8	21	74
Chromium	ppm	ASTM D5185m	>10	0	0	2
Nickel	ppm	ASTM D5185m	>4	0	0	<u> </u>
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	4	6
Lead	ppm	ASTM D5185m	>20	0	0	<1
Copper	ppm	ASTM D5185m	>125	0	0	23
Tin	ppm	ASTM D5185m	>4	0	0	3
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	0	1
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	52	56	59
Manganese	ppm	ASTM D5185m	0	0	<1	2
Magnesium	ppm	ASTM D5185m	1010	865	908	907
Calcium	ppm	ASTM D5185m	1070	968	974	1012
Phosphorus	ppm	ASTM D5185m	1150	971	991	966
Zinc	ppm	ASTM D5185m	1270	1128	1175	1213
Sulfur	ppm	ASTM D5185m	2060	3217	2698	2239
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	11	10
Sodium	ppm	ASTM D5185m		<1	5	31
Potassium	ppm	ASTM D5185m	>20	0	1	26
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.9	0.3
Nitration	Abs/cm	*ASTM D7624	>20	6.4	7.3	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	19.6	17.9
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	14.6	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.4	7.7	4.7

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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



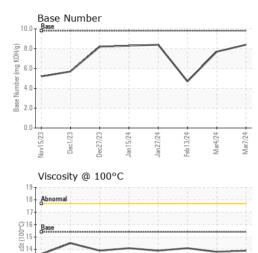
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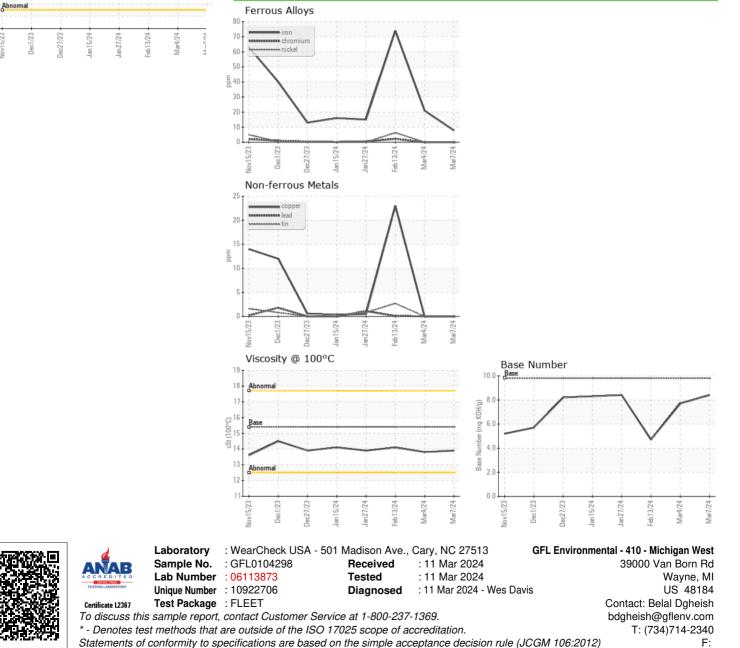
Nov15/23

# **OIL ANALYSIS REPORT**

VISUAL







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