

## **OIL ANALYSIS REPORT**

Sample Rating Trend





DIAGNOSIS Recommendation

Contamination

Fluid Condition

Wear

oil.

Machine Id 196M

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

oil is suitable for further service.

All component wear rates are normal.

Component Diesel Engine Fluid PETRO CANADA DURON SHR 15W40 (

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

Zinc

Sulfur

Silicon

Sodium

Soot %

Nitration

Sulfation

Oxidation

Potassium

**INFRA-RED** 

CONTAMINANTS




SAMPLE INFOR	RMATIO	V method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110033	GFL0110086	GFL0110007
Sample Date		Client Info		06 Feb 2024	02 Feb 2024	10 Jan 2024
Machine Age	hrs	Client Info		12403	12378	12188
Oil Age	hrs	Client Info		600	600	12042
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINA	TION	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 META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	30	9	5
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>30	3	2	1
Lead	ppm	ASTM D5185m	>30	<1	0	0
Copper	ppm	ASTM D5185m	>30	1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	2	1
Barium	ppm	ASTM D5185m	0	<1	5	0
Molybdenum	ppm	ASTM D5185m	60	57	57	57
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	871	912	969
Calcium	ppm	ASTM D5185m	1070	1038	965	961
Phosphorus	ppm	ASTM D5185m	1150	947	906	1061
		AOTH DELOF	1070	4450	4450	10.10

ASTM D5185m 1270

2060

>30

>20

ASTM D5185m

ASTM D5185m

ASTM D5185m

ASTM D5185m

\*ASTM D7844 >3

Abs/cm \*ASTM D7624 >20

Abs/.1mm \*ASTM D7415 >30

Abs/.1mm \*ASTM D7414 >25

ppm

ppm

ppm

ppm

ppm

%

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

FLUID DEGRADATION method

1159

2969

7

3

4

0.5

9.2

19.7

16.1

8.8

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1159

2957

5

0

2

0

4.5

17.7

13.1

8.8

1248

4

3

2

0.2

5.8

18.2

14.2

8.7

3123



Bas

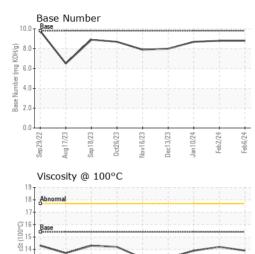
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Sep29/22 Aug17/23

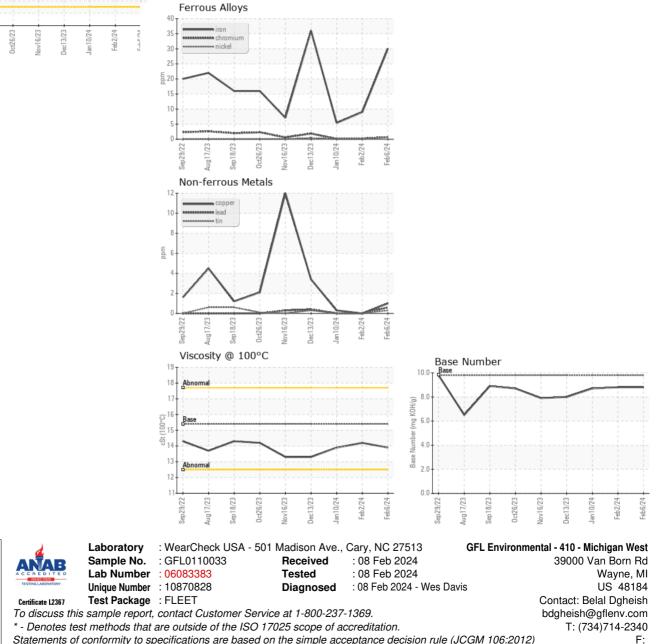
Abnorma

Sep 18/23

## **OIL ANALYSIS REPORT**



VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4	13.9	14.2	13.9
GRAPHS						



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