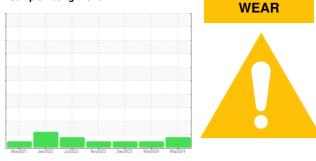


## **OIL ANALYSIS REPORT**

Sample Rating Trend





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

### DIAGNOSIS Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Machine Id 4703M

#### A Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

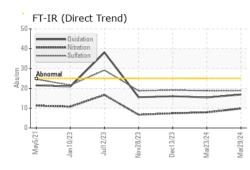
#### Fluid Condition

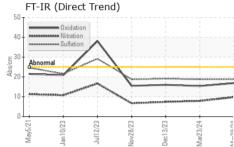
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

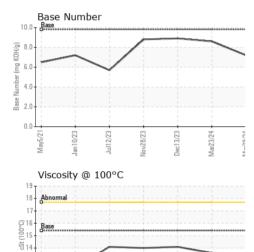
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108787	GFL0117676	GFL0105766
Sample Date		Client Info		29 Mar 2024	23 Mar 2024	13 Dec 2023
Machine Age	hrs	Client Info		12339	12292	11799
Oil Age	hrs	Client Info		12292	11799	11687
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method		NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>75	<b>115</b>	82	6
Chromium	ppm	ASTM D5185m	>5	1	<1	0
Nickel	ppm	ASTM D5185m	>4	1	<1	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>15	8	6	6
Lead	ppm	ASTM D5185m	>25	<1	0	2
Copper	ppm	ASTM D5185m	>100	2	2	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m	21	۰ <1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1-1-	method	limit/base	current	history1	history2
	nnm				2	<1
Boron	ppm	ASTM D5185m ASTM D5185m	0	1 0	2	0
Barium	ppm		60	56	59	57
Molybdenum	ppm	ASTM D5185m ASTM D5185m		50 1	<1	0
Manganese	ppm	ASTM D5185m	1010	917	986	1055
Magnesium Calcium	ppm	ASTM D5185m	1070	1037	1099	1188
	ppm	ASTM D5185m	1150	963	1099	1116
Phosphorus Zinc	ppm	ASTM D5185m	1270	903 1164	1248	1278
Sulfur	ppm ppm	ASTM D5185m	2060	3408	3686	3072
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	10	8	3
Sodium	ppm	ASTM D5185m	00	4	6	3
Potassium	ppm	ASTM D5185m	-	10	6	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.4	0.3	0.1
Nitration	Abs/cm	*ASTM D7624	>20	9.8	7.9	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	18.8	19.1
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	15.4	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.2	8.6	8.9
Base Namber (BN)	ingitonig	TOTHER DE000	0.0	1.2	0.0	0.0



# **OIL ANALYSIS REPORT**



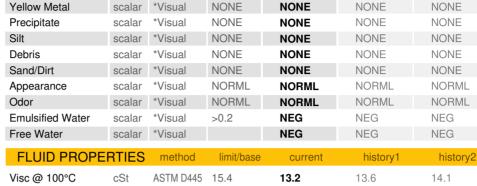




13 - Abr

12.

May5/21



limit/base

NONE

current

NONE

history1

NONE

history2

NONE

method

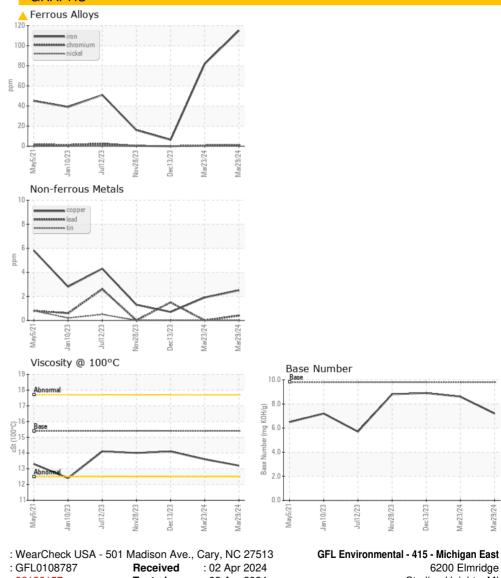
\*Visual

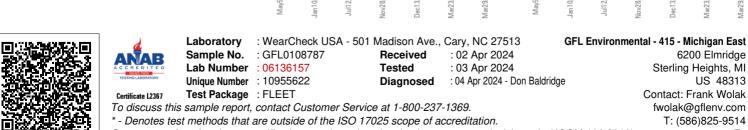
scalar

GRAPHS

VISUAL

White Metal





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

Mar23/24

Jec13/23

C/8000

F: