

### **OIL ANALYSIS REPORT**

Sample Rating Trend



# 727115-07

Component
Diesel Engine

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

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Sample only )  $% \label{eq:commutative}$ 

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

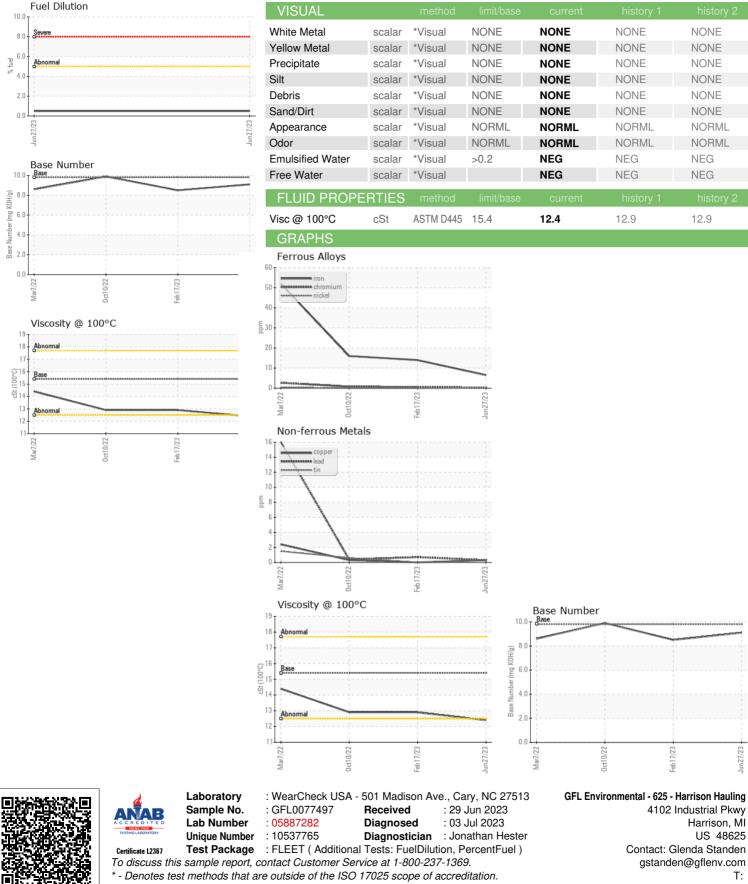
#### Fluid Condition

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

Minžozz Ovzčozz Febčtozs Junžozs						
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		GFL0077497	GFL0060756	GFL0055596
Sample Date		Client Info		27 Jun 2023	17 Feb 2023	10 Oct 2022
Machine Age	hrs	Client Info		17464	17367	17025
Oil Age	hrs	Client Info		97	600	0
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	6	14	16
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	2
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	2	2
Lead	ppm	ASTM D5185m	>40	<1	<1	<1
Copper	ppm	ASTM D5185m	>330	<1	0	<1
Tin	ppm	ASTM D5185m	>15	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	16	114	12
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	65	87	61
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	903	582	881
Calcium	ppm	ASTM D5185m	1070	1135	1512	1189
Phosphorus	ppm	ASTM D5185m	1150	1025	862	994
Zinc	ppm	ASTM D5185m	1270	1235	1019	1184
Sulfur	ppm	ASTM D5185m	2060	3307	3390	3540
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	3	4	3
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	2	0	0
Fuel	%	ASTM D3524	>5	0.5	<1.0	<1.0
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.3	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.1	9.5	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	21.2	22.0
FLUID DEGRAD	<b>ATION</b>	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.1	17.4	18.6



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

Submitted By: also GFL632 and GFL638 - Glenda Standen

US 48625

T:

F:

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

12.9