

# **OIL ANALYSIS REPORT**

Sample Rating Trend



## Area (MC12176) 820007

## Diesel Engine

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

### DIAGNOSIS

#### 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.

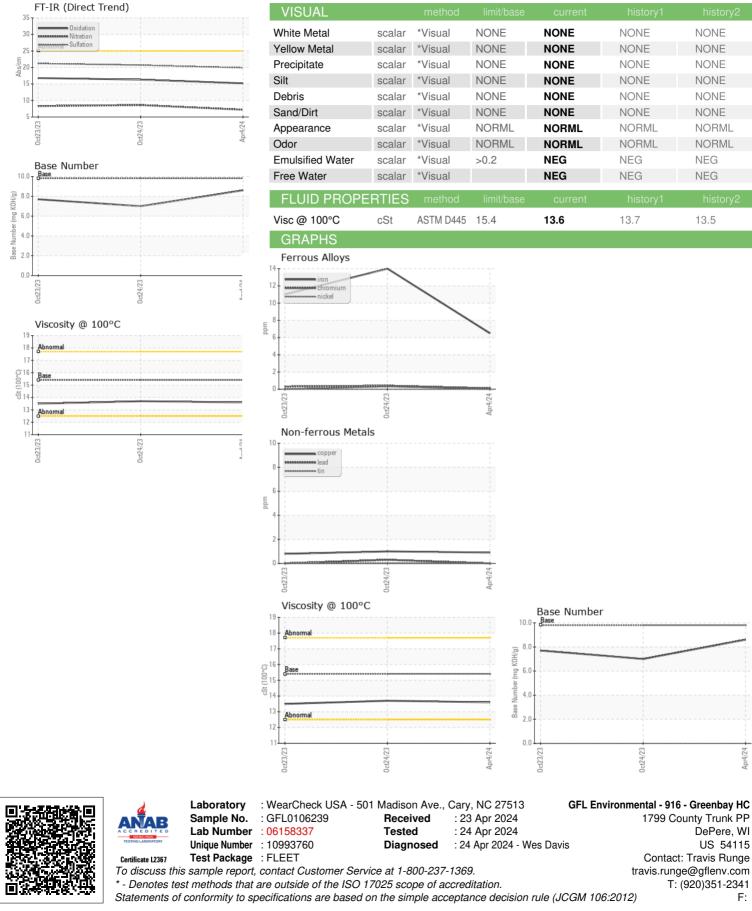
### Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0106239	GFL0066990	GFL0066988
Sample Date		Client Info		04 Apr 2024	24 Oct 2023	23 Oct 2023
Machine Age	hrs	Client Info		7701	6710	6710
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<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	>100	6	14	11
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	4	3
Lead	ppm	ASTM D5185m	>40	0	<1	0
Copper	ppm	ASTM D5185m	>330	<1	1	<1
Tin	ppm	ASTM D5185m	>15	0	0	0
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	4	6	2
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	61	62	62
Manganese	ppm	ASTM D5185m	0	<1	0	0
Magnesium	ppm	ASTM D5185m	1010	1000	900	938
Calcium	ppm	ASTM D5185m	1070	1150	1097	1099
Phosphorus	ppm	ASTM D5185m	1150	1063	857	918
Zinc	ppm	ASTM D5185m	1270	1291	1205	1240
Sulfur	ppm	ASTM D5185m	2060	3480	2753	3058
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	4	4
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m		<1	5	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.7	0.6
Nitration	Abs/cm	*ASTM D7624		7.2	8.6	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.7	21.2
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	16.3	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	7.0	7.7



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