

## **OIL ANALYSIS**

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

# (FB50678) 211008

Component **Diesel Engine** 

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

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring. No other contaminants were detected 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.

SIS REPO	Sample Rating Trend				FUEL	
GAL)		-	Nov2022	Jan2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0108538	GFL0055729	
Sample Date		Client Info		26 Jan 2024	15 Nov 2022	
Machine Age	hrs	Client Info		0	500	
Oil Age	hrs	Client Info		0	500	
Oil Changed		Client Info		N/A	Changed	
Sample Status				MARGINAL	ABNORMAL	
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAI	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	20	142	
Chromium	ppm	ASTM D5185m	>20	<1	10	
Nickel	ppm	ASTM D5185m	>2	0	2	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	2	4	
Aluminum	ppm	ASTM D5185m	>25	2	8	
Lead	ppm	ASTM D5185m	>40	0	2	
Copper	ppm	ASTM D5185m	>330	2	23	
Tin	ppm	ASTM D5185m	>15	0	<1	
Vanadium	ppm	ASTM D5185m		0	<1	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	3	25	
Barium	ppm	ASTM D5185m	0	25	0	
Molybdenum	ppm	ASTM D5185m	60	58	71	
Manganese	ppm	ASTM D5185m	0	0	6	
Magnesium	ppm	ASTM D5185m	1010	837	258	
Calcium	ppm	ASTM D5185m	1070	1019	1712	
Phosphorus	ppm	ASTM D5185m	1150	1020	920	
Zinc	ppm	ASTM D5185m	1270	1116	1130	
Sulfur	ppm	ASTM D5185m	2060	3085	3203	
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	14	
Sodium	ppm	ASTM D5185m		0	6	
Potassium	ppm	ASTM D5185m	>20	3	0	
Fuel	%	ASTM D3524	>5	<b>4</b> .5	▲ 7.5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	1.1	
Nitration	Abs/cm	*ASTM D7624	>20	10.7	17.9	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	34.5	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	34.7	
Dese New 1 (DND	1/01//	AOTH DOCCO	0.0			

5.7

8.2



# **OIL ANALYSIS REPORT**

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.2

15.4

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

curren

NEG

NEG

12.3

history1

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

history

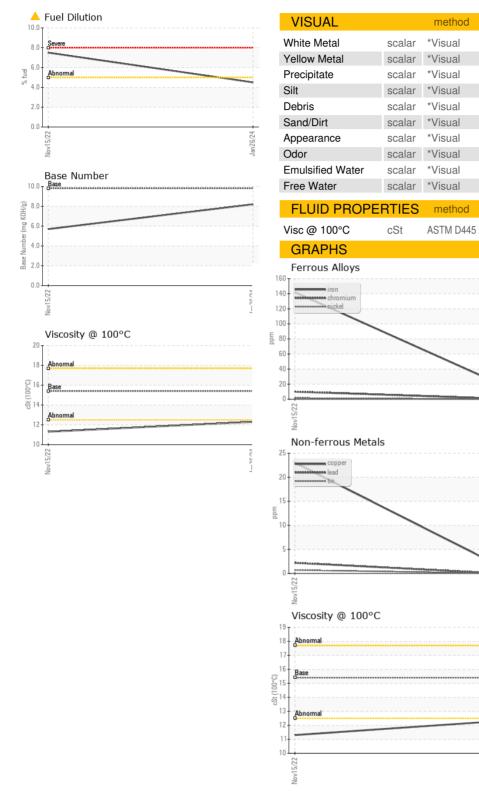
NEG

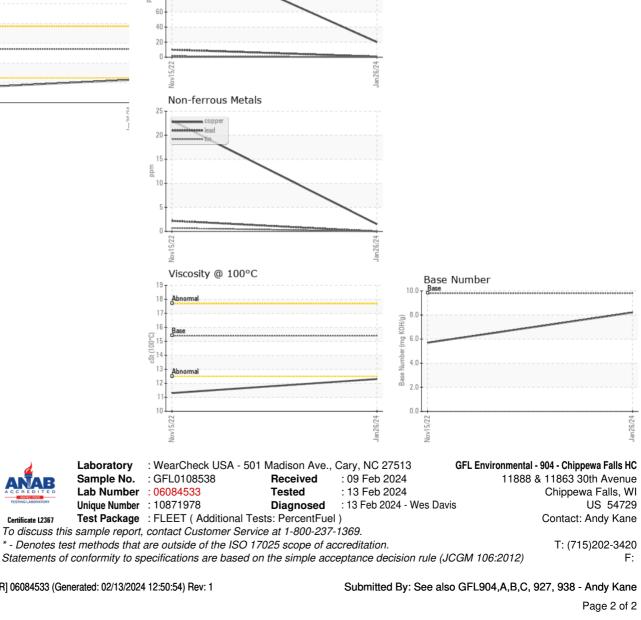
NEG

11.3

history2

history2





Certificate L2367

Laboratory

Sample No.

Lab Number : 06084533

Unique Number : 10871978

: GFL0108538