

(**P836061**)

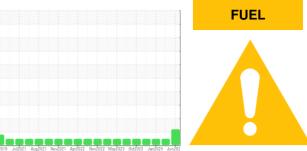
10952

## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

#### Sample Rating Trend

limit/base



history1

history2

current

PETRO CANADA DURON SHP 15W40 (40 QTS)

## DIAGNOSIS

**Diesel Engine** 

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## Wear

Area

All component wear rates are normal.

### Contamination

Light fuel dilution occurring.

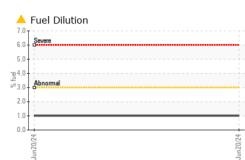
#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

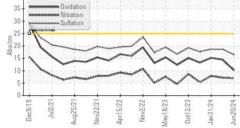
		methou	IIIII/Dase	Current	Thistory I	Thistory2
Sample Number		Client Info		GFL0125701	GFL0101767	GFL0101793
Sample Date		Client Info		20 Jun 2024	09 Apr 2024	31 Jan 2024
Machine Age	hrs	Client Info		84601	84000	83600
Oil Age	hrs	Client Info		601	600	600
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
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	>75	8	11	13
Chromium	ppm	ASTM D5185m	>5	0	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>15	3	3	3
Lead	ppm	ASTM D5185m	>25	0	<1	0
Copper	ppm	ASTM D5185m	>100	1	5	23
Tin	ppm	ASTM D5185m	>4	<1	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	20	4	2
Barium	ppm	ASTM D5185m	0	0	0	<1
Molybdenum	ppm	ASTM D5185m	60	55	61	58
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	1010	612	962	856
Calcium	ppm	ASTM D5185m	1070	1150	1119	1013
Phosphorus	ppm	ASTM D5185m	1150	819	1023	947
Zinc	ppm	ASTM D5185m	1270	932	1258	1129
Sulfur	ppm	ASTM D5185m	2060	2977	3285	2898
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	5
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	3	1	2
Fuel	%	ASTM D3524	>3.0	<u> </u>	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.0	7.2	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	16.5	18.7	18.7
FLUID DEGRA		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	10.2	14.5	15.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.0	8.6	8.1

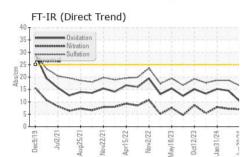


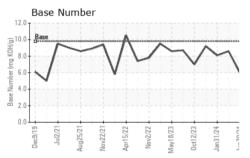
# **OIL ANALYSIS REPORT**





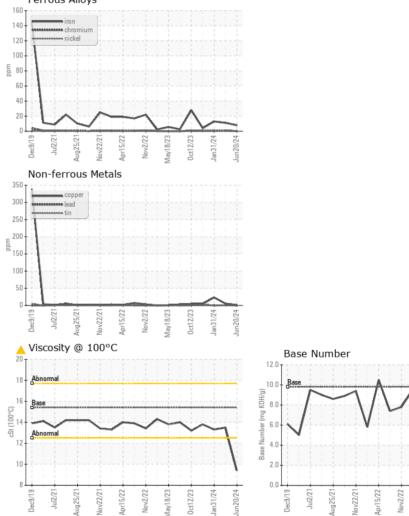


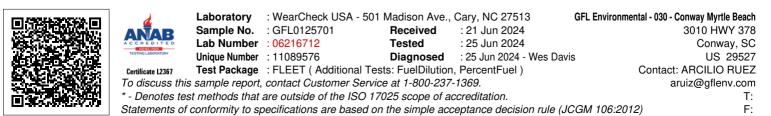




VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	<mark>/</mark> 9.4	13.5	13.3
GRAPHS						

Ferrous Alloys





Submitted By: TECHNICIAN ACCOUNT

Mav18/23

un20/24

Jan 31/24