

## **OIL ANALYSIS REPORT**

Sample Rating Trend

VISCOSITY



Recommendation

on your next sample.

were detected in the oil.

Contamination

All component wear rates are normal.

acceptable for the time in service.

Wear

Machine Id 828011

Fluid

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA DURON SHP 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade

Light fuel dilution occurring. No other contaminants

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is

Component Diesel Engine

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

N SHP 15W40 (·	GAL)	May2020	Nov2020 May2021 Nov20	121 Apr2022 Oct2022 Sep2023	Mar2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102900	GFL0065879	GFL0061948
Sample Date		Client Info		21 Mar 2024	25 Sep 2023	14 Oct 2022
Machine Age	hrs	Client Info		0	0	8708
Oil Age	hrs	Client Info		10037	9485	323
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAI	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	24	20	16
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	5	4	4
Lead	ppm	ASTM D5185(m)	>30	0	1	<1
Copper	ppm	ASTM D5185(m)	>150	<1	1	2
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	26	44	6
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	37	21	56
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	465	315	893
Calcium	ppm	ASTM D5185(m)	1070	1664	1857	1068
Phosphorus	ppm	ASTM D5185(m)	1150	748	951	1023
Zinc	ppm	ASTM D5185(m)	1270	905	1161	1131
Sulfur	ppm	ASTM D5185(m)	2060	2021	2706	2473
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	4	4
Sodium	ppm	ASTM D5185(m)		2	3	6
Potassium	ppm	ASTM D5185(m)	>20	4	13	2
Fuel	%	ASTM D7593*	>5	1.9	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	11.5	9.1	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.4	22.1	19.8



10.0

8 (

6. % fuel

0.0

2000

1800

1600

1400

1200

1000

800

2000

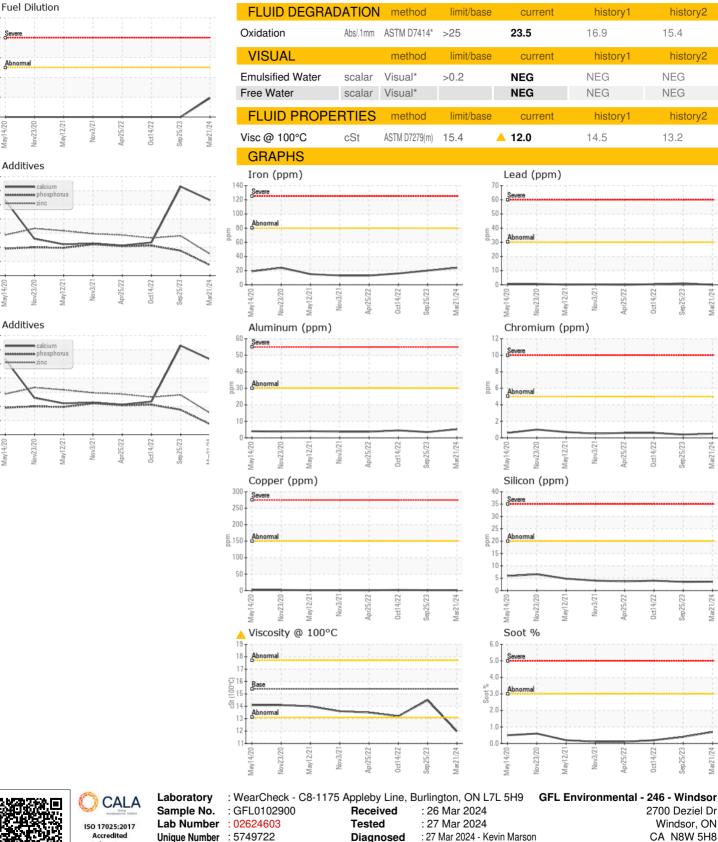
1800

1600

1400 لم 1200

> 1000 800 600

## **OIL ANALYSIS REPORT**



Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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0ct14/77

177

Aar71/74

/ar21/24

history2

history2

historv2

15.4

NEG

NEG

13.2

0ct14/22

en 25/23

lar71/74

Laboratory