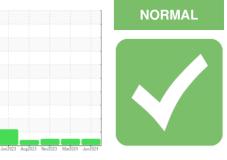


OIL ANALYSIS REPORT

Sample Rating Trend



9944 Component Diesel Engine Fluid

PETRO CANADA DURON-E XL 15W40 (--- LTR)

DIAGNOSIS Recommendation

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.

Machine Id

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113199	GFL0113258	GFL0097320
Sample Date		Client Info		26 Jun 2024	06 Mar 2024	14 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		20345	19838	192311
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ON	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 D5185(m)	>120	7	4	3
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	2	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	2	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		<1	0	0
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)	1	90	14	107
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	7	50	4
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	95	786	51
Calcium	ppm	ASTM D5185(m)	1070	1921	1133	2036
Phosphorus	ppm	ASTM D5185(m)	1150	853	941	905
Zinc	ppm	ASTM D5185(m)	1270	1042	1110	1079
Sulfur	ppm	ASTM D5185(m)	2060	2623	2621	2728
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	2	0
Sodium	ppm	ASTM D5185(m)		9	3	5
Potassium	ppm	ASTM D5185(m)	>20	5	2	4
Fuel	%	ASTM D7593*	>3.0	2.8	2.8	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.3	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.7	8.7	8.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.6	18.9	22.9



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2.0

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0.0

3

3

21

Abs/cm

15

10

2500

200

E 1500 1000

500

2000

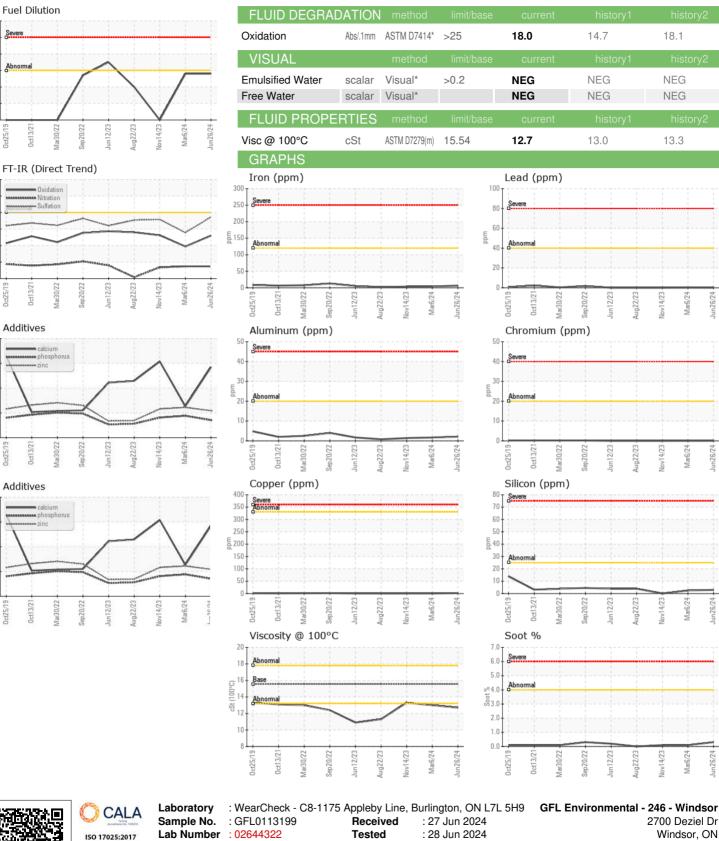
E 1500

1000

500

1

OIL ANALYSIS REPORT



Diagnosed

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

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

: 28 Jun 2024 - Kevin Marson

2700 Deziel Dr Windsor, ON CA N8W 5H8 Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009 E:

14/23

18.1

NEG

NEG

13.3

Validity of results and interpretation are based on the sample and information as supplied. Report Id: GFL246 [WCAMIS] 02644322 (Generated: 06/28/2024 09:36:50) Rev: 1

Accredited

Laboratory

Unique Number : 5801861

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

Submitted By: Dave Varga Page 2 of 2