

## **OIL ANALYSIS REPORT**

Sample Rating Trend



DIAGNOSIS

9944 Component Diesel Engine Fluid

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

## S Recommendation S Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to Ν monitor. C Wear C All component wear rates are normal. S Contamination Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are ۷ likely a result of solder flux release into the lubricant G and is common on new equipment/components. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the h oil. C Fluid Condition Ν

Machine Id

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 acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113197	GFL0113199	GFL0113258
Sample Date		Client Info		26 Jun 2024	26 Jun 2024	06 Mar 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		1341	20345	19838
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	28	7	4
Chromium	ppm	ASTM D5185(m)	>20	<1	0	0
Nickel	ppm	ASTM D5185(m)	>5	4	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	6	2	2
Lead	ppm	ASTM D5185(m)	>40	5	0	<1
Copper	ppm	ASTM D5185(m)	>330	180	2	<1
Tin	ppm	ASTM D5185(m)	>15	2	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	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	26	90	14
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	51	7	50
Manganese	ppm	ASTM D5185(m)	0	1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	513	95	786
Calcium	ppm	ASTM D5185(m)	1070	1630	1921	1133
Phosphorus	ppm	ASTM D5185(m)	1150	673	853	941
Zinc	ppm	ASTM D5185(m)	1270	834	1042	1110
Sulfur	ppm	ASTM D5185(m)	2060	1735	2623	2621
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	14	3	2
Sodium	ppm	ASTM D5185(m)		2	9	3
Potassium	ppm	ASTM D5185(m)	>20	17	5	2
Fuel	%	ASTM D7593*	>3.0	0.0	2.8	2.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.3	0.3	0.1
Nitration	Abs/cm	ASTM D7624*	>20	10.0	8.7	8.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.2	23.6	18.9



## **OIL ANALYSIS REPORT**

FLUID DEGRADATION method

Abs/.1mm ASTM D7414\*

method

Oxidation

VISUAL

limit/base

limit/base

>25

current

current

current

23.2

NEG

NEG













history1

history1

history<sup>-</sup>

18.0

NEG

NEG

history2

history2

historv2

14.7

NEG

NEG

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 246 - Windsor CALA Sample No. : GFL0113197 Received : 27 Jun 2024 2700 Deziel Dr Lab Number : 02644324 Tested : 28 Jun 2024 Windsor, ON ISO 17025:2017 Accredited Unique Number : 5801863 Diagnosed : 28 Jun 2024 - Kevin Marson CA N8W 5H8 Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: Dave Varga To discuss this sample report, contact Customer Service at 1-800-268-2131. dvarga@gflenv.com Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)944-8009 Validity of results and interpretation are based on the sample and information as supplied.

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Submitted By: Dave Varga Page 2 of 2

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