

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

## **VISCOSITY**





Machine Id **413153** Component **Diesel Engine** 

PETRO CANADA DURON

## **DIAGNOSIS**

#### Recommendation

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

All component wear rates are normal.

### Contamination

Fuel content negligible. 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. There is no indication of any contamination in the oil.

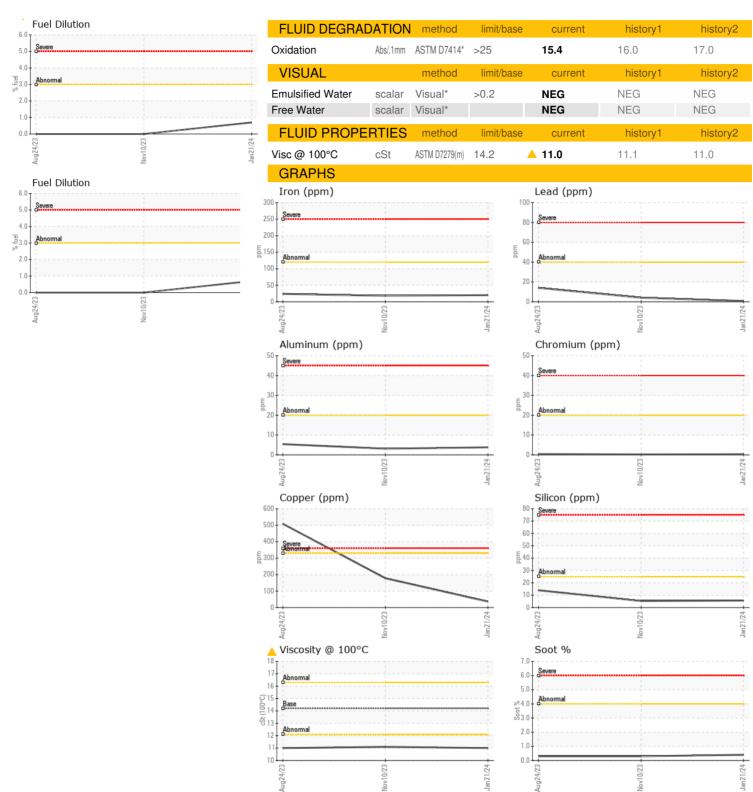
## Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

I UHP E6 10W40 (-	LTR)	Aug	2023	Nov2023 Jan20	24	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0102658	GFL0097619	GFL0090609
Sample Date		Client Info		21 Jan 2024	10 Nov 2023	24 Aug 2023
Machine Age	hrs	Client Info		0	1674	1115
Oil Age	hrs	Client Info		0	559	0
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
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 D5185(m)	>120	20	18	24
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	2	<1	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	2
Aluminum	ppm	ASTM D5185(m)	>20	4	3	5
Lead	ppm	ASTM D5185(m)	>40	<1	4	14
Copper	ppm	ASTM D5185(m)	>330	36	178	▲ 508
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Antimony	ppm	ASTM D5185(m)		0	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)	0	4	4	14
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	0	59	62	66
Manganese	ppm	ASTM D5185(m)	0	0	<1	2
Magnesium	ppm	ASTM D5185(m)	80	946	991	938
Calcium	ppm	ASTM D5185(m)	2400	1071	1095	1082
Phosphorus	ppm	ASTM D5185(m)	750	986	977	1004
Zinc	ppm	ASTM D5185(m)	840	1165	1201	1109
Sulfur	ppm	ASTM D5185(m)	2130	2553	2775	2199
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	5	14
Sodium	ppm	ASTM D5185(m)		<1	2	2
Potassium	ppm	ASTM D5185(m)	>20	8	4	12
Fuel	%	ASTM D7593*	>3.0	0.7	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4	0.3	0.3
Nitration	Abs/cm	ASTM D7624*	>20	8.3	8.2	8.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	20.3	21.7



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: GFL0102658 : 02610176

: 5711262

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 554 - Edmonton SW Recieved Diagnosed

: 23 Jan 2024 Diagnostician : Kevin Marson

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

: 22 Jan 2024

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

Edmonton, AB CA T6P 0B8 Contact: Tim Greig tgreig@gflenv.com T: (780)231-0521

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