

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **413111** Component **Diesel Engine**

PETRO CANADA 10W30 (38 LTR)

DIAGNOSIS Recommendation

Resample at the next service interval to monitor.

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. There is no indication of any contamination in the

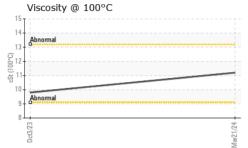
Fluid Condition

The condition of the oil is acceptable for the time in service.

30 (38 LTR)			Oct2023	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0110650	GFL0064778	
Sample Date		Client Info		21 Mar 2024	03 Oct 2023	
Machine Age	hrs	Client Info		1539	600	
Oil Age	hrs	Client Info		600	600	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	.S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	21	41	
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	
Nickel	ppm	ASTM D5185(m)	>5	4	3	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	0	1	
Aluminum	ppm	ASTM D5185(m)	>20	4	7	
Lead	ppm	ASTM D5185(m)	>40	5	12	
Copper	ppm	ASTM D5185(m)	>330	219	433	
Tin	ppm	ASTM D5185(m)	>15	<1	4	
Antimony	ppm	ASTM D5185(m)		0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		8	204	
Barium	ppm	ASTM D5185(m)		0	<1	
Molybdenum	ppm	ASTM D5185(m)		68	129	
Manganese	ppm	ASTM D5185(m)		0	5	
Magnesium	ppm	ASTM D5185(m)		754	676	
Calcium	ppm	ASTM D5185(m)		1326	1510	
Phosphorus	ppm	ASTM D5185(m)		993	670	
Zinc	ppm	ASTM D5185(m)		1191	795	
Sulfur	ppm	ASTM D5185(m)		2432	1899	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	37	
Sodium	ppm	ASTM D5185(m)		2	4	
Potassium	ppm	ASTM D5185(m)	>20	12	15	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4	0.4	
Nitration	Abs/cm	ASTM D7624*	>20	9.6	10.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.6	25.6	



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CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number

: 02624554 Unique Number : 5749673

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0110650 Received

Tested Diagnosed

: 26 Mar 2024 : 26 Mar 2024

2.0 0.0

: 26 Mar 2024 - Wes Davis

GFL Environmental - 213 - Kitchener 16 Centennial Road, Kitchener Yard Kitchener, ON **CA N2B 3G1**

Contact: Keith Zehr kzehr@gflenv.com T: (226)751-4416

Test Package : MOB 1 (Additional Tests: Visual) 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.

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