

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL



Machine Id
59596
Component
Diesel Engine
Fluid

PETRO CANADA 10W40 (--- GAL)

		NDA	

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0285120	LH0169740	
Sample Date		Client Info		07 Feb 2024	14 Nov 2022	
Machine Age	hrs	Client Info		19498	17530	
Oil Age	hrs	Client Info		0	0	
Filter Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>100	8	24	
Chromium	ppm	ASTM D5185(m)	>5	0	<1	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	

WEAR

All component wear rates are normal.

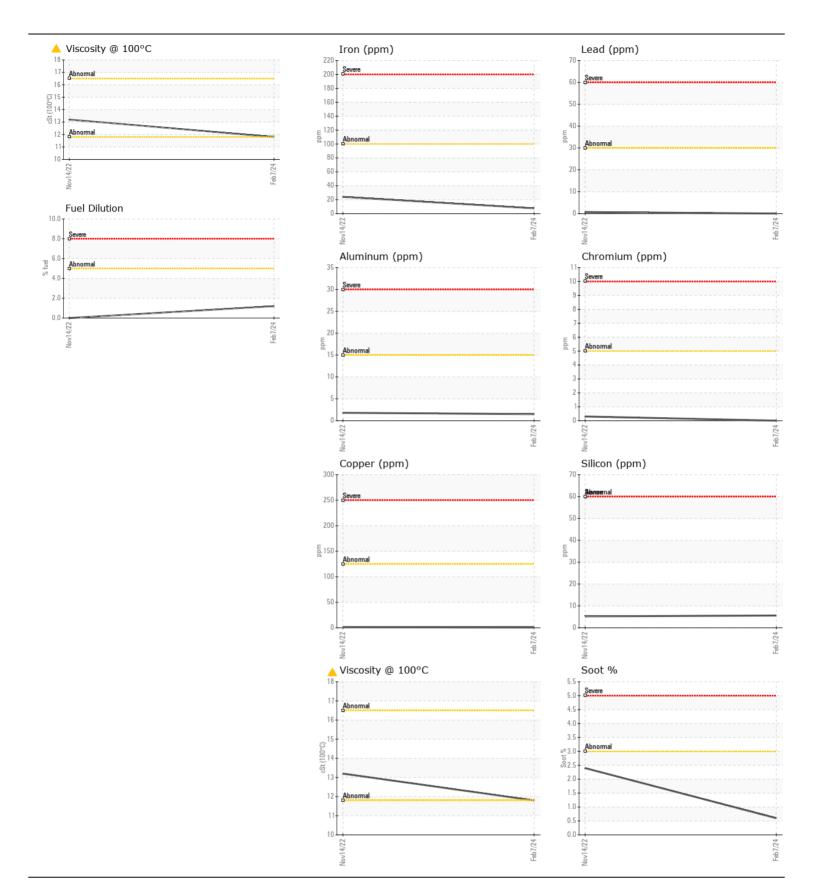
CONTAMINATION

Light fuel dilution occurring. No other contaminants were detected 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.

Sample Status				ABNORMAL	NORMAL	
Iron	ppm	ASTM D5185(m)	>100	8	24	
Chromium	ppm	ASTM D5185(m)	>5	0	<1	
Nickel	ppm	ASTM D5185(m)	>5	0	<1	
Titanium	ppm	ASTM D5185(m)		0	<1	
Silver	ppm	ASTM D5185(m)	>3	0	0	
Aluminum	ppm	ASTM D5185(m)	>15	2	2	
Lead	ppm	ASTM D5185(m)	>30	0	<1	
Copper	ppm	ASTM D5185(m)	>125	<1	1	
Tin	ppm	ASTM D5185(m)	>5	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Silicon	ppm	ASTM D5185(m)	>60	6	5	
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
Fuel	%	ASTM D7593*	>5	1.2	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	ASTM D7844*	>3	0.6	2.4	
Nitration	Abs/cm	ASTM D7624*	>20	7.9	9.4	
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	23.4	
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
Sodium	ppm	ASTM D5185(m)	>20	4	2	
Boron	ppm	ASTM D5185(m)		34	5	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		57	59	
Manganese	ppm	ASTM D5185(m)		0	<1	
Magnesium	ppm	ASTM D5185(m)		1000	965	
Calcium	ppm	ASTM D5185(m)		946	1181	
Phosphorus	ppm	ASTM D5185(m)		1001	1090	
Zinc	ppm	ASTM D5185(m)		1142	1229	
Sulfur	ppm	ASTM D5185(m)		2838	2632	
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.7	15.6	
Visc @ 100°C	cSt	ASTM D7279(m)		<u> </u>	13.2	
Contact/Location: Marc Giguere - BAKOTT						
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ISO 17025:2017
Accredited
Laboratory

Laboratory: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **Sample No.**: LH0285120 **Received**: 23 Feb 2024

 Sample No.
 : LH0285120
 Received
 : 23 Feb 2024

 Lab Number
 : 02617581
 Tested
 : 26 Feb 2024

 Ited
 Unique Number
 : 5734691
 Diagnosed
 : 26 Feb 2024 - Kevin Marson

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

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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