

Machine Id 116431-1217 Component

## Diesel Engine

PETRO CANADA 10W40 (--- GAL)

RECOMMENDATION

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.

WEAR		
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All component wear rates are normal.

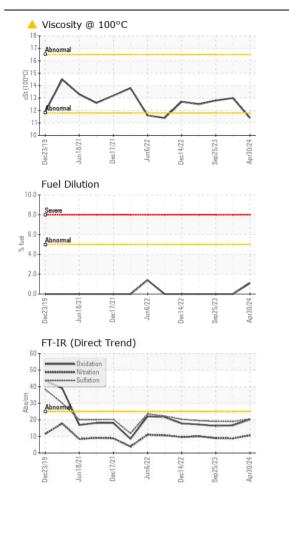
## CONTAMINATION

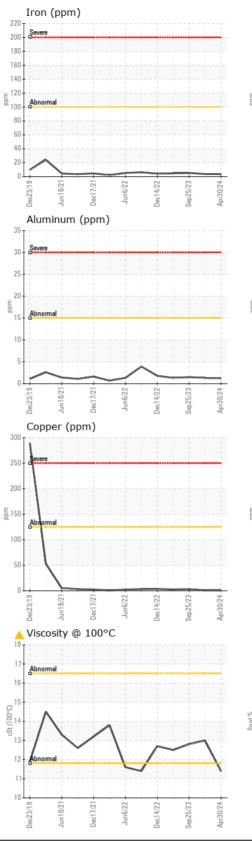
Light fuel dilution occurring. No other contaminants were detected in the oil.

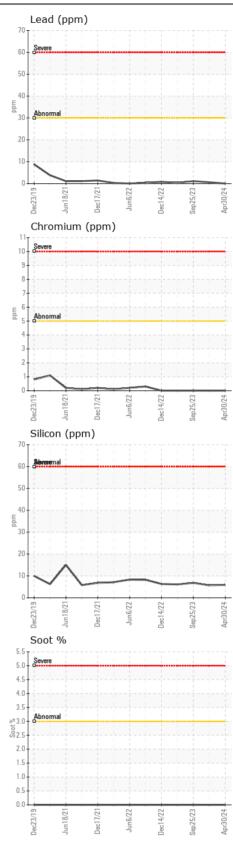
	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0278857	LH0277753	LH0270562
	Sample Date		Client Info		30 Apr 2024	08 Jan 2024	25 Sep 2023
	Machine Age	hrs	Client Info		8543	8104	7608
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
	Iron	ppm	ASTM D5185(m)	>100	4	4	5
	Chromium	ppm	ASTM D5185(m)	>5	0	0	0
	Nickel	ppm	ASTM D5185(m)	>5	0	0	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	0	<1
	Aluminum	ppm	ASTM D5185(m)	>15	1	1	2
	Lead	ppm	ASTM D5185(m)	>30	0	<1	1
	Copper	ppm	ASTM D5185(m)	>125	<1	<1	3
	Tin	ppm	ASTM D5185(m)	>5	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Silicon	ppm	ASTM D5185(m)	>60	6	6	7
	Potassium	ppm	ASTM D5185(m)	>20	0	<1	0
	Fuel	%	ASTM D7593*	>5	1.1	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0	0	0
	Nitration	Abs/cm	ASTM D7624*	>20	10.6	8.8	8.9
	Sulfation	Abs/.1mm	ASTM D7415*	>30	20.4	19.0	19.1
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
	Sodium	ppm	ASTM D5185(m)	>20	4	1	2
	Boron	ppm	ASTM D5185(m)		30	6	1
	Barium	ppm	ASTM D5185(m)		0	0	<1
	Molybdenum	ppm	ASTM D5185(m)		58	57	59
	Manganese	ppm	ASTM D5185(m)		0	0	0
	Magnesium	ppm	ASTM D5185(m)		1086	925	976
	Calcium	ppm	ASTM D5185(m)		844	1132	1127
	Phosphorus	ppm	ASTM D5185(m)		973	1000	1021
	Zinc	ppm	ASTM D5185(m)		1170	1162	1244
	Sulfur	ppm	ASTM D5185(m)		2632	2715	2622
	Oxidation	Abs/.1mm	ASTM D7414*	>25	20.2	16.7	16.3
	Visc @ 100°C	cSt	ASTM D7279(m)		<b>11.4</b>	13.0	12.8

## FLUID CONDITION

Calcium ppm levels are abnormally low. Visc @ 100°C is abnormally low. Viscosity of sample indicates oil is within SAE 30 range, advise investigate.







Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 CALA Sample No. Received : LH0278857 :07 May 2024 Lab Number : 02633848 Tested :08 May 2024 ISO 17025:2017 Accredited : 08 May 2024 - Kevin Marson Unique Number : 5775001 Diagnosed Laboratory 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.

## American Iron and Metal

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