

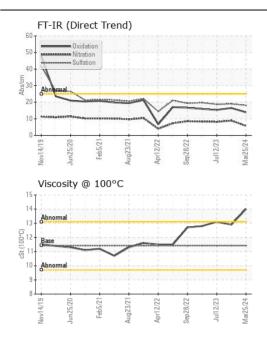
Machine Id Componen

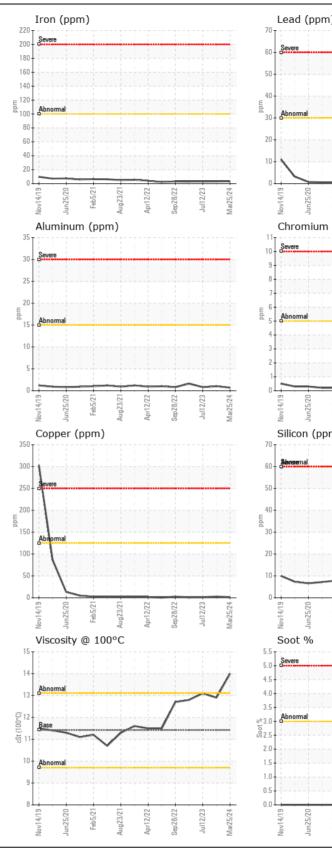
LIEBHERR LH40M 114405-1215

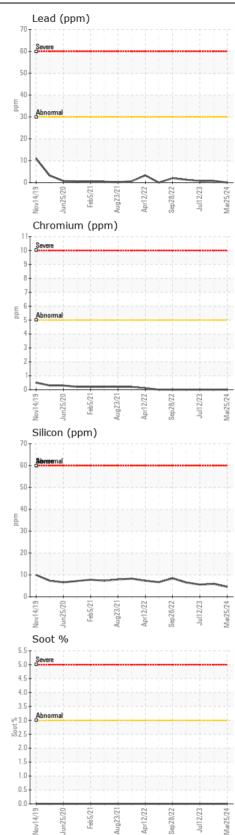
Diesel Engine

PETRO CANADA SUPREME 5W30 (30 LTR)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0270293	LH0281441	LH0270643
	Sample Date		Client Info		25 Mar 2024	27 Nov 2023	12 Jul 2023
	Machine Age	hrs	Client Info		6625	6537	6035
	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	Sample Status			NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>100	3	3	3
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	0	0	0
	Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
	Titanium	ppm	ASTM D5185(m)		0	0	0
	Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>15	<1	1	<1
	Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>125	1	3	1
	Tin	ppm	ASTM D5185(m)	>5	0	0	0
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	4	6	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	0	0	0
	Fuel		WC Method	>5	<1.0	<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	5.7	8.9	8.1
	Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	19.0	18.7
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		<1	2	2
Viscosity of sample indicates oil is within SAE 40 range, advise investigate. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)	186	3	3	4
	Barium	ppm	ASTM D5185(m)	<1	0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	79	56	59	58
	Manganese	ppm	ASTM D5185(m)	0	0	0	<1
	Magnesium	ppm	ASTM D5185(m)	578	938	965	981
	Calcium	ppm	ASTM D5185(m)	1002	1093	1046	1074
	Phosphorus	ppm	ASTM D5185(m)	745	978	1006	1058
	Zinc	ppm	ASTM D5185(m)	837	1155	1185	1207
	Sulfur	ppm	ASTM D5185(m)	2502	2616	2523	2628
	Oxidation	Abs/.1mm	ASTM D7414*	>25	13.9	16.5	15.3
	Visc @ 100°C	cSt	ASTM D7279(m)	11.42	14.0	12.9	13.1







CALA Laboratory : WearCheck Sample No. : LH0270293 Lab Number : 02627606 Unique Number : 5760738 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0270293 **Received** : 09 Apr 2024 : 02627606 **Tested** : 09 Apr 2024 : 5760738 **Diagnosed** : 09 Apr 2024 - Kevin Marson

ELG Canada 4375 CORPORATE DRIVE BURLINGTON, ON CA L7L 5P7 Contact: Service Manager

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.

Report Id: STR437BUR [WCAMIS] 02627606 (Generated: 04/09/2024 15:21:11) Rev: 1

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Submitted By: ? Page 2 of 2