

WEAR	NORMAL
CONTAMINATION	
FLUID CONDITION	NORMAL



(345484) Machine Id LIEBHERR R914 050032-1511

Component Diesel Engine

SAE 5W30 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH	LH0279201	
	Sample Date		Client Info		18 Apr 2024	19 Mar 2024	
	Machine Age	hrs	Client Info		1761	1426	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	N/A	
	Filter Changed		Client Info		Not Changd	N/A	
	Sample Status				NORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185(m)	>100	15	42	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		2	▲ 5	
	Nickel	ppm	ASTM D5185(m)		0	<1	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)	>3	0	0	
	Aluminum	ppm	ASTM D5185(m)		5	7	
	Lead	ppm	ASTM D5185(m)		0	0	
	Copper	ppm	ASTM D5185(m)		2	9	
	Tin	ppm	ASTM D5185(m)		0	0	
	Vanadium	ppm	ASTM D5185(m)		0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	0''''				<u>^</u>		
CONTAMINATION	Silicon	ppm	ASTM D5185(m)		9	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		1	2	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol	0/	WC Method	0	NEG	NEG	
	Soot % Nitration	% Abs/cm	ASTM D7844* ASTM D7624*		0 8.1	0.1 10.4	
	Sulfation	Abs/.1mm		>20	19.5	20.7	
	Silt	scalar	Visual*	NONE	NONE	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance		Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water		Visual*	>0.2	NEG	NEG	
			v 150001	20.L			
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		5	7	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		41	14	
	Barium	ppm	ASTM D5185(m)		0	0	
	Molybdenum	ppm	ASTM D5185(m)		59	52	
	Manganese	ppm	ASTM D5185(m)		<1	0	
	Magnesium	ppm	ASTM D5185(m)		1126	1021	
	Calcium	ppm	ASTM D5185(m)		856	997	
	Phosphorus	ppm	ASTM D5185(m)		989	893	
	Zinc	ppm	ASTM D5185(m)		1181	1152	
	Sulfur	ppm	ASTM D5185(m)		2705	2472	

Oxidation

Abs/.1mm ASTM D7414\* >25

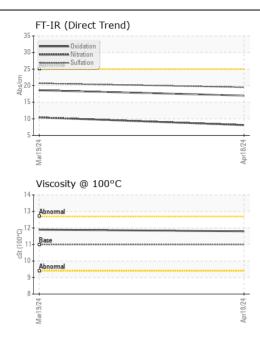
Visc @ 100°C cSt ASTM D7279(m) 11.0

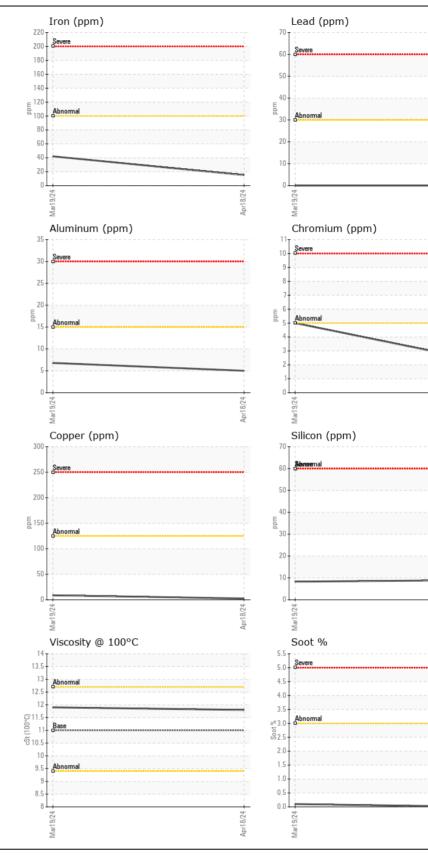
18.6

11.9

17.0

11.8





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

Received

Diagnosed

Tested

:03 May 2024

:03 May 2024

: 03 May 2024 - Kevin Marson

ROLAND MUNGER 2665 AVENUE DU LABRADOR BAIE COMEAU, QC CA G4Z 3B9 Contact: Boland Munger

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un18/74

CALA

ISO 17025:2017 Accredited Laboratory

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Laboratory

Sample No.

:LH

Test Package : MOB 1 (Additional Tests: Visual)

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.

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

Lab Number : 02632983

Unique Number : 5774136

Submitted By: Bruno Savard Page 2 of 2