WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



## Machine Id LIEBHERR LH40C 150109-1527

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	00111	Client Info	Limerton	LH0284853	LH0277027	
	Sample Date		Client Info		22 Mar 2024	23 Nov 2023	
	Machine Age	hrs	Client Info		2242	2110	
	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				NORMAL	NORMAL	
WEAD							
WEAR	Iron	ppm	ASTM D5185(m)		15	19	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)		<1	1	
	Nickel	ppm	ASTM D5185(m)	>5	0	0	
	Titanium	ppm	ASTM D5185(m)		0	0	
	Silver	ppm	ASTM D5185(m)		0	<1	
	Aluminum	ppm	ASTM D5185(m)		3	4	
	Lead	ppm	ASTM D5185(m)		6	10	
	Copper	ppm	ASTM D5185(m)		190	294	
	Tin	ppm	ASTM D5185(m)	>5	<1	1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	8	9	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)		2	2	
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	0.0	
	Soot %	%	ASTM D7844*	>3	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	12.5	13.8	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	41.7	42.6	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	3	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		79	51	
	Barium	ppm	ASTM D5185(m)		35	33	
	Molybdenum	ppm	ASTM D5185(m)		45	46	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)		869	929	
	Calcium	ppm	ASTM D5185(m)		1321	1371	
	Phosphorus	ppm	ASTM D5185(m)		652	681	
	Zinc	ppm	ASTM D5185(m)		785	844	
	Sulfur	ppm	ASTM D5185(m)		1851	1833	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	55.4	56.5	
	Visc @ 100°C	cSt	ASTM D7279(m)	11.0	11.8	11.8	





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number : 02626904 Unique Number : 5760036

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : LH0284853 Test Package : MOB 1

Received : 05 Apr 2024 **Tested** : 05 Apr 2024

Diagnosed : 05 Apr 2024 - Kevin Marson

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.

Dartmouth Metals & Bottle Ltd.

14 Dawn Drive Dartmouth, NS CA B3B 1H9 Contact: Service

T: F: