WEAR CONTAMINATION FLUID CONDITION

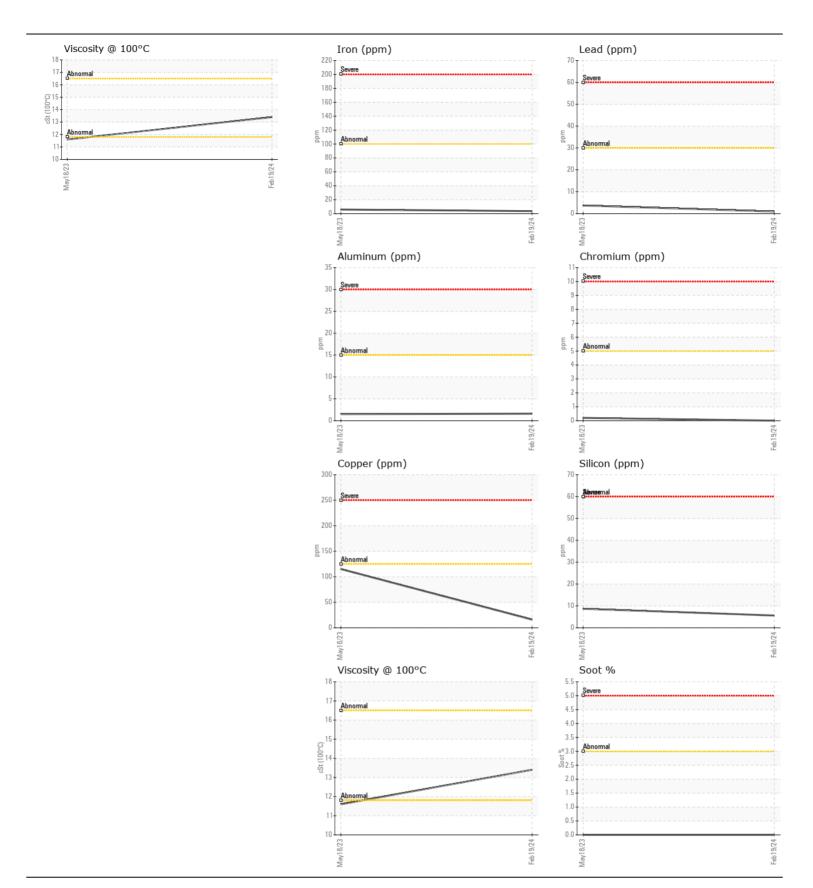
NORMAL NORMAL



Area (358362)
Machine Id
LIEBHERR R930 052244-1716

Component Diesel Engine

	Test	UOM	Method	Limit/Abn	Current	History1	Hictory'
RECOMMENDATION Resample at the next service interval to monitor.	Sample Number	UOIVI	Client Info	LIMIT/ADN	LH0281064	LH0225005	History2
	Sample Date		Client Info		19 Feb 2024	18 May 2023	
	Machine Age	hrs	Client Info		1457	1024	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed	1110	Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				NORMAL	ABNORMAL	
/EAR	Iron	ppm	ASTM D5185(m)	>100	4	6	
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>5	0	<1	
	Nickel	ppm	ASTM D5185(m)	>5	<1	0	
	Titanium	ppm	ASTM D5185(m)		0	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>15	2	2	
	Lead	ppm	ASTM D5185(m)	>30	<1	4	
	Copper	ppm	ASTM D5185(m)	>125	16	115	
	Tin	ppm	ASTM D5185(m)	>5	<1	<1	
	Vanadium	ppm	ASTM D5185(m)		0	0	
ONTAMINATION	Silicon	ppm	ASTM D5185(m)	>60	6	9	
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
There is no indication of any contamination in the oil.	Fuel	PPIII	WC Method		<1.0	1.1	
	Water		WC Method		NEG	NEG	
	Glycol		WC Method	7 0.2	NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	6.8	9.4	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	21.4	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
LUD CONDITION							
LUID CONDITION	Sodium	ppm	ASTM D5185(m)	>20	1	4	
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185(m)		3	45	
	Barium	ppm	ASTM D5185(m)		<1	2	
	Molybdenum	ppm	ASTM D5185(m)		58	58	
	Manganese	ppm	ASTM D5185(m)		0	<1	
	Magnesium	ppm	ASTM D5185(m)		970	1128	
	Calcium	ppm	ASTM D5185(m)		1035	916	
	Phosphorus	ppm	ASTM D5185(m)		1009	1108	
	Zinc	ppm	ASTM D5185(m)		1158	1232	
	Sulfur Oxidation	ppm Aha/1	ASTM D5185(m)	05	2710	2671	
	LIVICISTION	Abs/.1mm	ASTM D7414*	>/0	15.2	20.9	







Laboratory Sample No.

: LH0281064 Lab Number : 02616586

Tested Unique Number : 5733696 Test Package : MOB 1

Received : 20 Feb 2024 : 20 Feb 2024 Diagnosed

: 20 Feb 2024 - Wes Davis

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 HAYSHAKERS BOBCAT SERVICES 501 761 HWY LESLIEVILLE, AB CA T0M 1H0

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.

T:

F: