

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL

Current

LH0289498

History1

History2

LH0285034 LH0277528

Limit/Abn

Machine Id LIEBHERR LH50M 123311-1216

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

Test

Sample Number

UOM

Method

Client Info

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			

All component wear rates are normal.

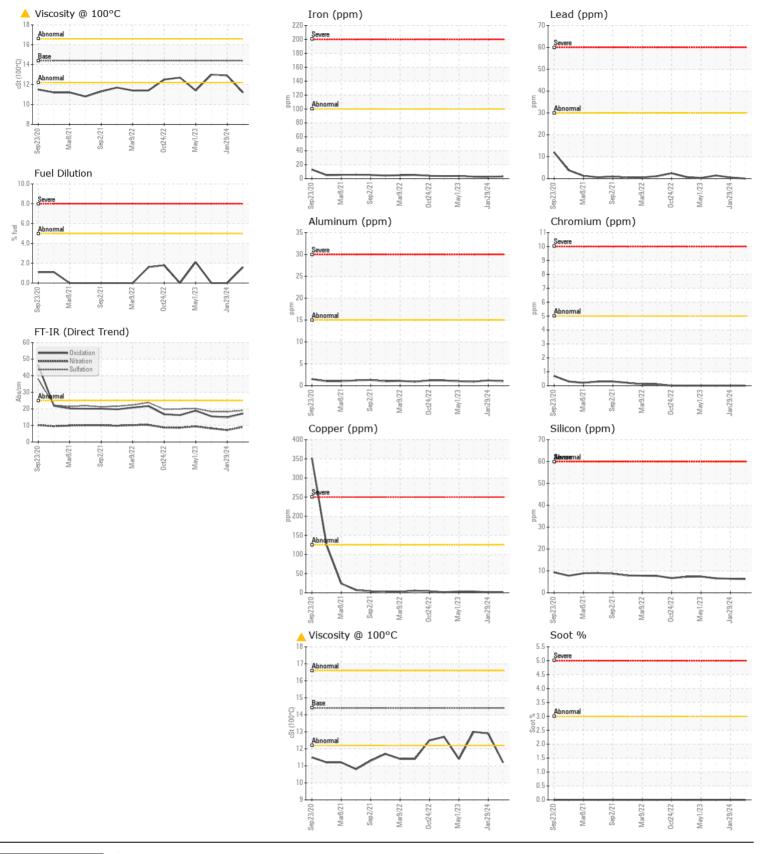
CONTAMINATION

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

	Sample Date		Client Info		25 Apr	2024	29 Jan 2024	27 Nov 2023	
	Machine Age	hrs	Client Info		8175		0	7310	
	Oil Age	hrs	Client Info		0		0	0	
	Filter Age	hrs	Client Info		0		0	0	
	Oil Changed		Client Info		Chan	ged	N/A	Changed	
	Filter Changed		Client Info		N/A		N/A	N/A	
	Sample Status				ABNOF	RMAL	NORMAL	NORMAL	
	Iron	ppm	ASTM D5185(m)	>100	3		2	3	
	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	2		2	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	<1		<1	0	
	Fuel	%	ASTM D7593*	>5	1.6	;	<1.0	<1.0	
	Water		WC Method	>0.2	NE		NEG	NEG	
	Glycol		WC Method		NE	G	NEG	NEG	
	Soot %	%	ASTM D7844*	>3	0		0	0	
	Nitration	Abs/cm	ASTM D7624*	>20	9.1		7.2	8.2	
	Sulfation	Abs/.1mm	ASTM D7415*	>30	19.	0	18.3	18.3	
	Emulsified Water	scalar	Visual*	>0.2	NE	G	NEG	NEG	
	Sodium	ppm	ASTM D5185(m)	>216	3		1	2	
	Boron	ppm	ASTM D5185(m)	250	30		5	1	
	Barium	ppm	ASTM D5185(m)	10	0		0	<1	
	Molybdenum	ppm	ASTM D5185(m)	100	53		56	58	
	Manganese	ppm	ASTM D5185(m)		0		0	0	
	Magnesium	ppm	ASTM D5185(m)	450	103	38	937	965	
	Calcium	ppm	ASTM D5185(m)	3000	798	3	1096	1040	
	Phosphorus	ppm	ASTM D5185(m)	1150	943	3	969	994	
	Zinc	ppm	ASTM D5185(m)	1350	112	25	1163	1182	
	Sulfur	ppm	ASTM D5185(m)	4250	259	94	2764	2502	
	Oxidation	Abs/.1mm	ASTM D7414*	>25	17.	2	14.9	15.5	
	Visc @ 100°C	cSt	ASTM D7279(m)	14.4	🔺 11.	2	12.9	13.0	

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 LONDON SALVAGE & TRADING LTD. Laboratory CALA Sample No. Received 333 EGERTON ST : LH0289498 : 26 Apr 2024 5 LONDON, ON Lab Number : 02631568 Tested : 29 Apr 2024 ISO 17025:2017 Accredited : 29 Apr 2024 - Kevin Marson CA N5Z 2H3 Unique Number : 5772721 Diagnosed Laboratory Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel) Contact: SERVICE MANAGER To discuss this sample report, contact Customer Service at 1-800-268-2131. terry@londonsalvage.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)451-0680 F: (519)659-3576 Validity of results and interpretation are based on the sample and information as supplied.