

WEAR SEVERE CONTAMINATION SEVERE FLUID CONDITION NORMAL

LIEBHERR LH-60 MH11 (S/N 1212-92011)

Rear Left Final Drive

DURALENE Posi-Traction 80W90 (11 LTR)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. Bearing and/or bushing wear is indicated.

CONTAMINATION

FLUID CONDITION

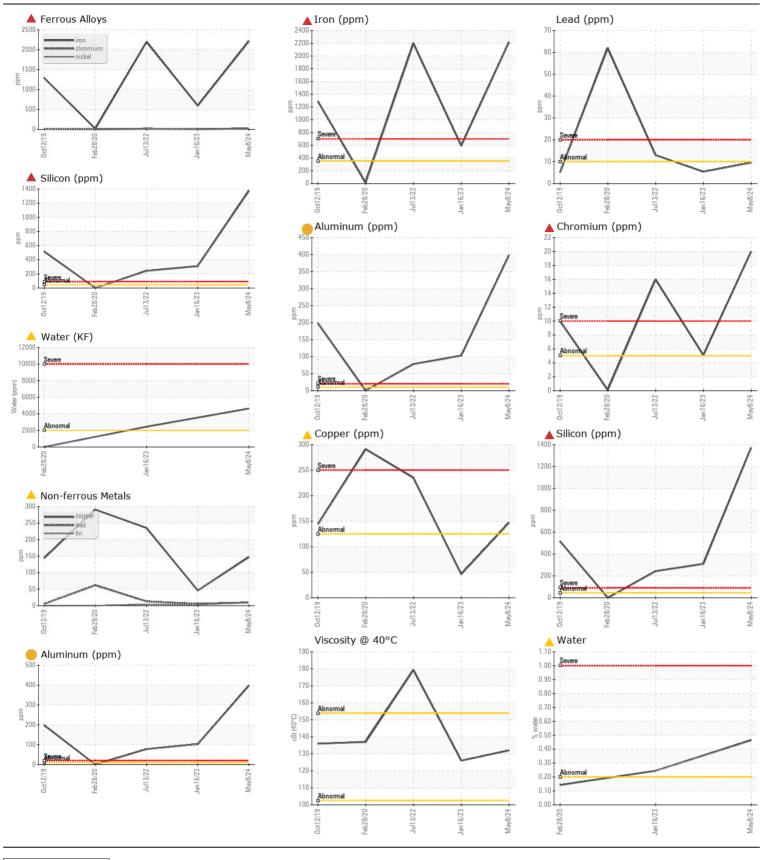
Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil.

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Test	UOM	Method	Limit/Abn	Cı	urrent	History1	History2
Sample Number		Client Info		DC	0033548	DC0022342	DC0021504
Sample Date		Client Info		08	May 2024	16 Jan 2023	13 Jul 2022
Machine Age	hrs	Client Info		11	359	9179	8362
Oil Age	hrs	Client Info		21	80	300	2000
Filter Age	hrs	Client Info		0		0	0
Oil Changed		Client Info		CI	hanged	Changed	Changed
Filter Changed		Client Info		N/	Ά	N/A	N/A
Sample Status				SE	EVERE	SEVERE	SEVERE
Iran			. 250		0010	▲ 594	A 0100
Iron	ppm	ASTM D5185m	>350		2216 20		▲ 2198
Chromium	ppm	ASTM D5185m	>5		-	<u>▲</u> 5	▲ 16
Nickel	ppm	ASTM D5185m	>5		13	4	▲ 19
Titanium	ppm	ASTM D5185m			28	6	5
Silver	ppm	ASTM D5185m	10		0	0	<1
Aluminum	ppm	ASTM D5185m	>10		398	1 03	78
Lead	ppm	ASTM D5185m	>10		10	5	1 3
Copper	ppm	ASTM D5185m	>125			46	<u> </u>
Tin	ppm	ASTM D5185m	>10		9	3	4
Vanadium	ppm	ASTM D5185m			1	<1	<1
White Metal	scalar	*Visual	NONE		NONE	MODER	NONE
Yellow Metal	scalar	*Visual	NONE		NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>45		1372	3 10	2 43
Potassium	ppm	ASTM D5185m	>20		147	28	18
Water	%	ASTM D6304	>0.2		0.464	0.245	
ppm Water	ppm	ASTM D6304	>2000			<u> </u>	
Silt	scalar	*Visual	NONE		NONE	MODER	NONE
Debris	scalar	*Visual	NONE		NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE		NONE	NONE	NONE
Appearance	scalar	*Visual	NORML		NORML	NORML	NORML
Odor	scalar	*Visual	NORML		NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2		0.2%	▲ 0.2%	NEG
						0.270	HEG
Sodium	ppm	ASTM D5185m			30	7	5
Boron	ppm	ASTM D5185m			158	71	21
Barium	ppm	ASTM D5185m			8	2	<1
Molybdenum	ppm	ASTM D5185m			1	2	3
Manganese	ppm	ASTM D5185m			22	6	15
Magnesium	ppm	ASTM D5185m			277	89	65
Calcium	ppm	ASTM D5185m			1102	409	267
Phosphorus	ppm	ASTM D5185m			1423	1329	601
Zinc	ppm	ASTM D5185m			127	85	88
Sulfur	ppm	ASTM D5185m			25588	25056	25056
Visc @ 40°C	cSt	ASTM D445			132	126	179.3
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The oil is no longer serviceable due to the presence of contaminants.

Submitted By: DON LONG



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONSERVIT INC. Laboratory Sample No. : DC0033548 Received PO BOX 1517 : 13 May 2024 : 06177955 Lab Number Tested HAGERSTOWN, MD : 15 May 2024 : 15 May 2024 - Sean Felton US 21740 Unique Number : 11029281 Diagnosed Test Package : MOB 1 (Additional Tests: KF) Contact: DON LONG Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)791-0100

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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