

WEAR SEVERE CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id LIEBHERR LH40 ML13 Component Swing Drive Filuid GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Bearing and/or gear wear is indicated.

CONTAMINATION

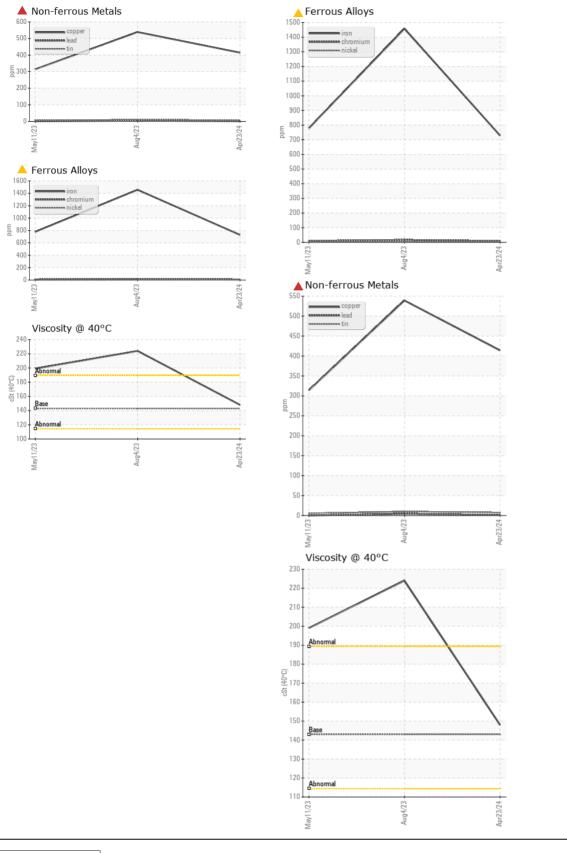
There is no indication of any contamination in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

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Tes	st	UOM	Method	Limit/Abn	Current	History1	History2
Sar	mple Number		Client Info		LH0244829	LHMC122781	LHMC103210
Sar	mple Date		Client Info		23 Apr 2024	04 Aug 2023	11 May 2023
Ma	chine Age	hrs	Client Info		13598	12105	11583
Oil	Age	hrs	Client Info		1500	0	0
Filt	er Age	hrs	Client Info		0	0	0
Oil	Changed		Client Info		Not Changd	Not Changd	Not Changd
Filt	er Changed		Client Info		N/A	N/A	N/A
Sample Status					SEVERE	SEVERE	ABNORMAL
				400	700	4 1450	
lror		ppm	ASTM D5185m	>400	A 729	▲ 1458	▲ 779
-	romium	ppm	ASTM D5185m	>10	9	▲ 16	9
Nic	-	ppm	ASTM D5185m	>10	2	2	1
	anium	ppm	ASTM D5185m		<1	0	0
Silv	•••	ppm	ASTM D5185m	0.5	<1	0	0
-	minum	ppm	ASTM D5185m	>25	2	2	0
Lea		ppm	ASTM D5185m	>50	1	5	0
	pper	ppm	ASTM D5185m	>200	4 14	▲ 539	A 314
Tin		ppm	ASTM D5185m	>10	8	▲ 10	6
Var	nadium	ppm	ASTM D5185m		<1	<1	0
Wh	iite Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yel	low Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Sili	con	ppm	ASTM D5185m	>50	5	4	3
Pot	tassium	ppm	ASTM D5185m	>20	2	1	<1
Wa	iter		WC Method	>0.2	NEG	NEG	NEG
Silt		scalar	*Visual	NONE	NONE	NONE	NONE
Del	bris	scalar	*Visual	NONE	NONE	NONE	NONE
Sar	nd/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Арр	pearance	scalar	*Visual	NORML	NORML	NORML	NORML
Od	or	scalar	*Visual	NORML	NORML	NORML	NORML
Emi	ulsified Water	scalar	*Visual	>0.2	NEG	0.2%	0.2%
Soc	dium	ppm	ASTM D5185m	>170	0	4	1
Bor	ron	ppm	ASTM D5185m	400	<1	<1	3
Bar	rium	ppm	ASTM D5185m	200	0	0	0
Мо	lybdenum	ppm	ASTM D5185m	12	2	2	2
Ма	nganese	ppm	ASTM D5185m		6	12	7
Ma	gnesium	ppm	ASTM D5185m	12	5	21	15
Cal	lcium	ppm	ASTM D5185m	150	26	37	35
Pho	osphorus	ppm	ASTM D5185m	1650	749	2150	1846
Zin	с	ppm	ASTM D5185m	125	30	82	83
Sul	lfur	ppm	ASTM D5185m	22500	24723	25056	26183
Vis	c @ 40°C	cSt	ASTM D445	143	148	224	199

Contact/Location: JAYSON FRAZIER - OSCLAF



OSCAR WINSKI CO. INC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 2407 N. 9TH STREET : LH0244829 : 24 Apr 2024 Lab Number : 06159921 Tested LAFAYETTE, IN : 25 Apr 2024 Unique Number : 10995344 Diagnosed : 26 Apr 2024 - Sean Felton US 47904 Test Package : CONST Contact: JAYSON FRAZIER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. frazierj@oscarwinski.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (765)376-1230 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Contact/Location: JAYSON FRAZIER - OSCLAF Page 2 of 2