

WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL NORMAL NORMAL**

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LIEBHERR LH30 101514-1253

Front Right Wheel Hub

GFAR OIL SAF 80W90 (--- GAL)

GLAN OIL SAL 60W90 (GAL	- /						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		LH0272804	LH0235746	LH02176
	Sample Date		Client Info		10 Jan 2024	25 Sep 2023	22 Mar 20
	Machine Age	hrs	Client Info		12010	11543	10552
	Oil Age	hrs	Client Info		0	0	2000
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Change
	Filter Changed		Client Info		N/A	Not Changd	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMA
WEAR	Iron	ppm	ASTM D5185m	>450	467	▲ 581	204
High concentration of visible metal present. Gear wear is indicated.	Chromium	ppm	ASTM D5185m	>4	1	2	<1

	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	2	<1
	Lead	ppm	ASTM D5185m	>4	0	0	0
	Copper	ppm	ASTM D5185m	>75	7	11	2
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	▲ HEAVY	NONE	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
INATION	Silicon	ppm	ASTM D5185m	>60	5	8	7

ppm

ppm

ASTM D5185m >2

ASTM D5185m

Nickel

Titanium

CONTAMI

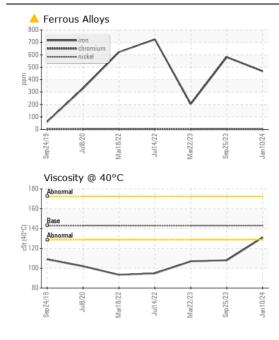
There is no indication of any contamination in the oil.

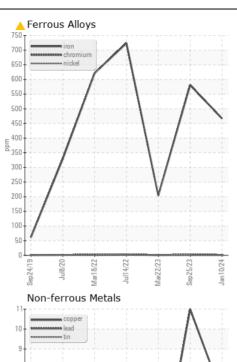
Silicon	ppm	ASTM D5185m	>60	5	8	7
Potassium	ppm	ASTM D5185m	>20	<1	2	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>170	1	3	2
Boron	ppm	ASTM D5185m	400	0	0	<1
Barium	ppm	ASTM D5185m	200	3	0	0

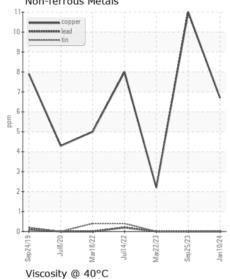
FLUID CONDITION

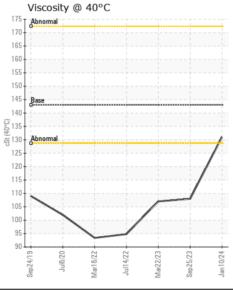
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	1	3	2
Boron	ppm	ASTM D5185m	400	0	0	<1
Barium	ppm	ASTM D5185m	200	3	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	1	2
Manganese	ppm	ASTM D5185m		3	4	2
Magnesium	ppm	ASTM D5185m	12	5	10	15
Calcium	ppm	ASTM D5185m	150	59	94	120
Phosphorus	ppm	ASTM D5185m	1650	342	288	290
Zinc	ppm	ASTM D5185m	125	4	67	76
Sulfur	ppm	ASTM D5185m	22500	16074	14020	16586
Visc @ 40°C	cSt	ASTM D445	143	131	108	107











Certificate L2367

Report Id: SPASPALH [WUSCAR] 06063180 (Generated: 01/19/2024 13:12:14) Rev: 1

Laboratory Sample No. Lab Number Unique Number

: LH0272804 : 06063180 : 10834562 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 17 Jan 2024 Diagnosed : 19 Jan 2024 Diagnostician : Don Baldridge

SPARTAN RECYCLING

3071 HOWARD ST SPARTANBURG, SC US 29303

Contact: SERVICE MANAGER

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.

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

Contact/Location: SERVICE MANAGER? - SPASPALH

T:

F: