



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 1253-123497
Component
Rear Right Wheel Hub
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0272909	LH0212314	---
Sample Date		Client Info		11 Jan 2024	30 Dec 2021	---
Machine Age	hrs	Client Info		4554	981	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	None	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>450	8	10	---
Chromium	ppm	ASTM D5185m	>4	<1	<1	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>15	2	0	---
Lead	ppm	ASTM D5185m	>4	0	0	---
Copper	ppm	ASTM D5185m	>75	<1	2	---
Tin	ppm	ASTM D5185m		0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

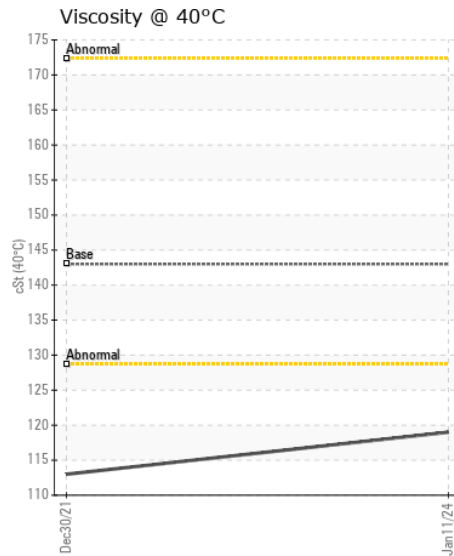
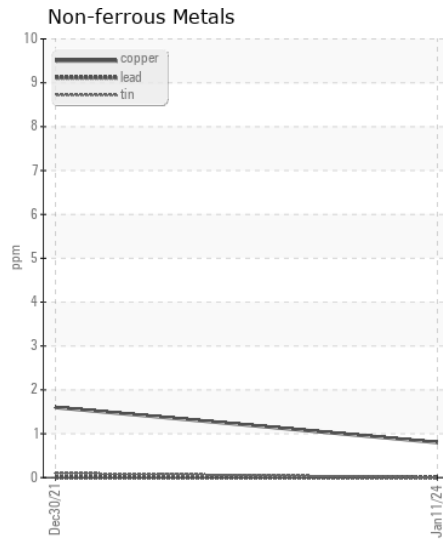
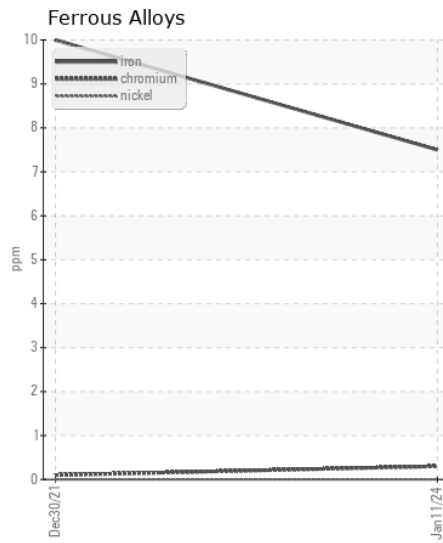
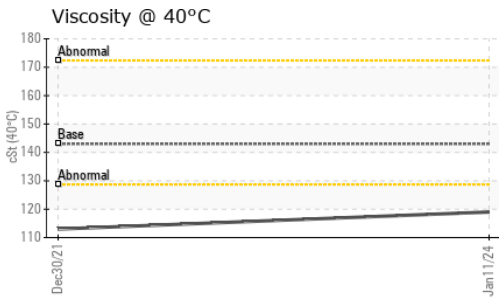
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>60	<1	3	---
Potassium	ppm	ASTM D5185m	>20	<1	0	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>170	0	2	---
Boron	ppm	ASTM D5185m	400	3	78	---
Barium	ppm	ASTM D5185m	200	3	0	---
Molybdenum	ppm	ASTM D5185m	12	0	<1	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	12	<1	1	---
Calcium	ppm	ASTM D5185m	150	53	274	---
Phosphorus	ppm	ASTM D5185m	1650	347	464	---
Zinc	ppm	ASTM D5185m	125	0	149	---
Sulfur	ppm	ASTM D5185m	22500	18332	21071	---
Visc @ 40°C	cSt	ASTM D445	143	119	113	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH0272909 **Recieved** : 17 Jan 2024
Lab Number : 06063175 **Diagnosed** : 19 Jan 2024
Unique Number : 10834557 **Diagnostician** : Don Baldridge
Test Package : CONST

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)

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