

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 117414-1253 - Front Differential

Sample No: LH0235757

Oil Type: GEAR OIL SAE 80W90



SPARTAN RECYCLING
 3071 HOWARD ST
 SPARTANBURG, SC
 US 29303
 Contact: SERVICE MANAGER



SAMPLE INFORMATION

Sample Number	LH0235757	LHMC160765	---	---
Sample Date	26 Sep 2023	03 Mar 2022	---	---
Machine Hours	7700	4332	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ATTENTION	ATTENTION	---	---



OIL CONDITION

Visc @ 40°C	cSt	89.7	88.5	---	---
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CONTAMINATION

Silicon	ppm	4	3	---	---
Sodium	ppm	3	4	---	---
Potassium	ppm	2	0	---	---



WEAR METALS

Iron	ppm	43	22	---	---
Copper	ppm	6	11	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	3	3	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	2	2	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	357	476	---	---
Magnesium	ppm	13	14	---	---
Zinc	ppm	145	179	---	---
Phosphorus	ppm	479	494	---	---
Barium	ppm	0	0	---	---
Boron	ppm	25	20	---	---

T:
F:

Diagnosis

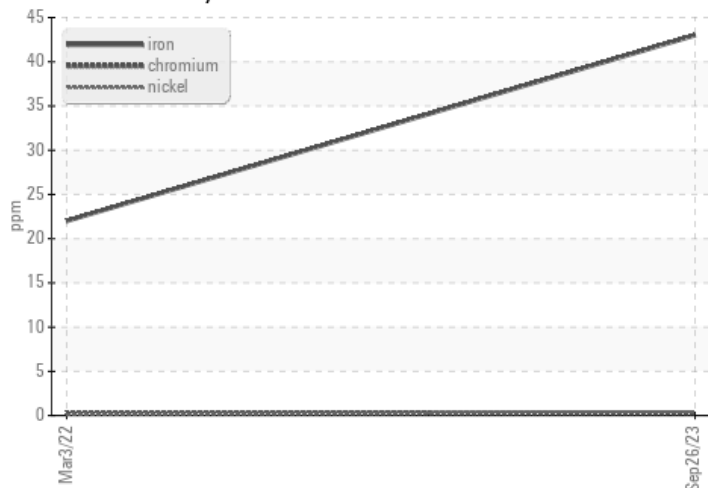
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: SPASPALH
 Unique No: 10674660
 Signed: Don Baldrige
 Report Date: 05 Oct 2023

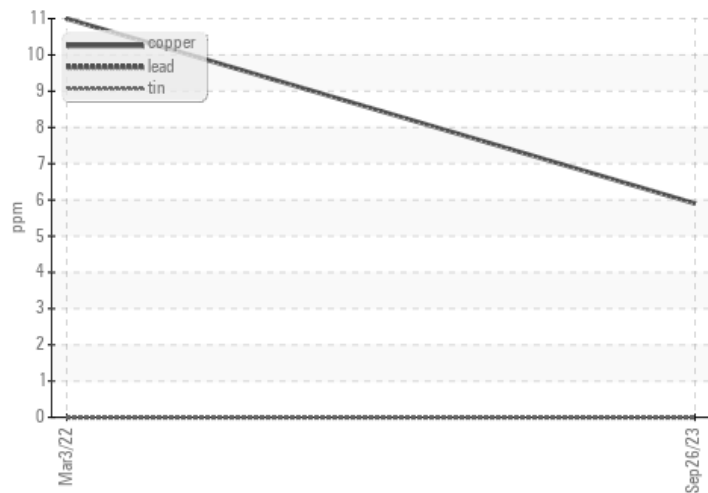


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

