

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 124150-1253 - Front Differential

Sample No: LH0229812

Oil Type: LIEBHERR GEAR BASIC 90 LS



ORION EQUIPMENT

3909 NW FRUIT VALLEY RD
VANCOUVER, WA
US 98660
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SAMPLE INFORMATION

Sample Number	LH0229812	LH0172153	---	---
Sample Date	05 Aug 2022	21 Dec 2021	---	---
Machine Hours	3000	1816	---	---
Oil Hours	1000	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	110	56.5	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	3	10	---	---
Sodium	ppm	7	15	---	---
Potassium	ppm	1	2	---	---



WEAR METALS

Iron	ppm	5	7	---	---
Copper	ppm	5	2	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	2	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	1	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1219	3419	---	---
Magnesium	ppm	4	11	---	---
Zinc	ppm	577	1421	---	---
Phosphorus	ppm	1870	1152	---	---
Barium	ppm	0	0	---	---
Boron	ppm	42	148	---	---

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

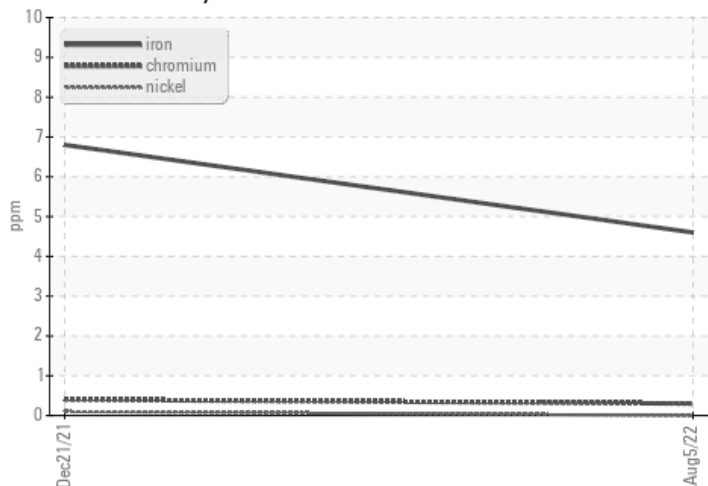
Diagnosis

Depot: ORIVAN
Unique No: 10114273
Signed: Doug Bogart
Report Date: 01 Sep 2022

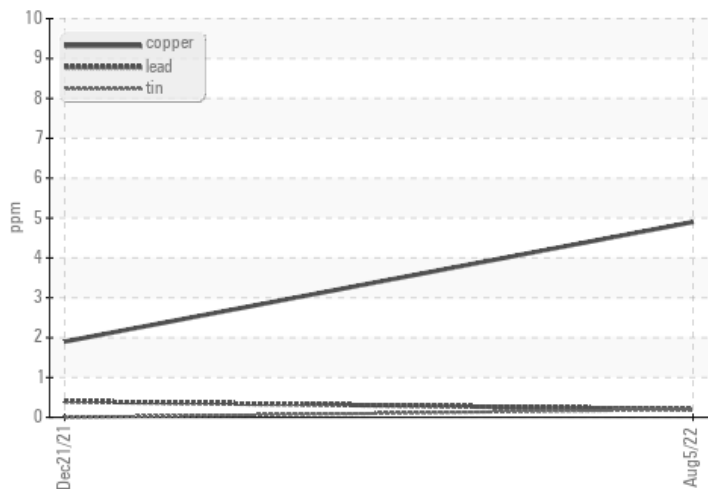


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

