

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-77107 - Rear Right Wheel Hub

Sample No: LH0258800

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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 US 54401
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SAMPLE INFORMATION

Sample Number	LH0258800	LH0254745	LH0243166	LH0229281
Sample Date	01 Mar 2024	16 Jun 2023	22 Dec 2022	31 May 2022
Machine Hours	20946	18994	17940	16365
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	116	127	134	137
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 6	● 14	● 29	● 13
Sodium	ppm	● 2	● <1	● <1	● <1
Potassium	ppm	● 0	● 2	● 4	● 2



WEAR METALS

Iron	ppm	● 31	● 81	● 294	● 58
Copper	ppm	● 2	● 3	● 11	● 2
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 0	● 2	● 4	● 1
Chromium	ppm	● 0	● <1	● <1	● 0
Molybdenum	ppm	● 0	● <1	● 1	● <1
Nickel	ppm	● 0	● 0	● 0	● <1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	● 0	● <1	● 2	● <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 55	● 70	● 87	● 87
Magnesium	ppm	● <1	● 8	● 12	● 11
Zinc	ppm	● 23	● 34	● 46	● 40
Phosphorus	ppm	● 878	825	777	● 794
Barium	ppm	● 0	● 0	● <1	● 0
Boron	ppm	● 2	● 11	● 18	● 24

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

Depot: LEC0008
 Unique No: 10940061
 Signed: Angela Borella
 Report Date: 25 Mar 2024

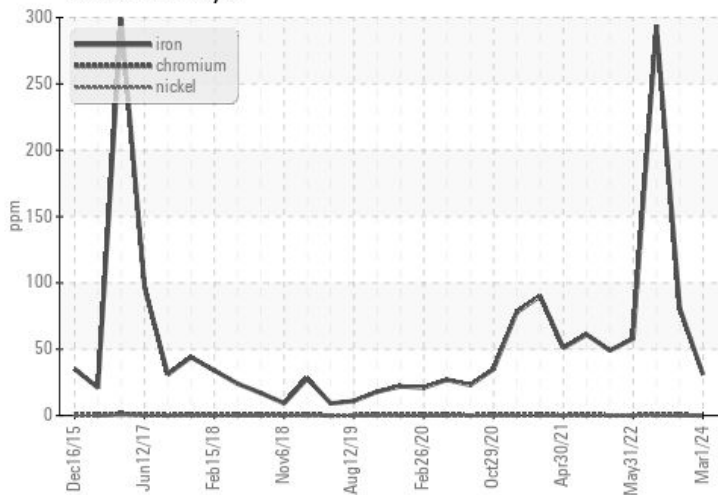
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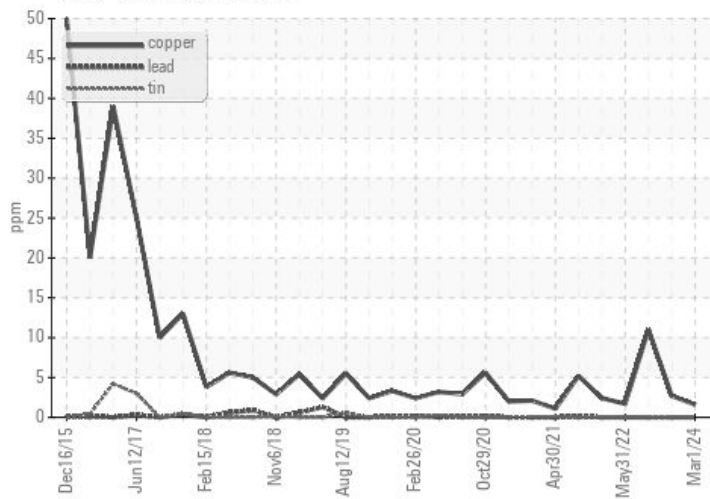


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

