

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-77107 - Transmission (Manual)

Sample No: LH0258797

Oil Type: CHEVRON DELO LE 5W40



SAMPLE INFORMATION

Sample Number	LH0258797	LH0272549	LH0254746	LH0243168
Sample Date	01 Mar 2024	28 Nov 2023	16 Jun 2023	22 Dec 2022
Machine Hours	20946	20037	18994	17940
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.9	44.5	45.3	43.1
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	11	7	6	9
Sodium	ppm	0	1	2	<1
Potassium	ppm	4	<1	2	4

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	36	27	29	41
Copper	ppm	8	7	8	15
Lead	ppm	<1	0	0	0
Tin	ppm	1	0	<1	<1
Aluminum	ppm	2	<1	1	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	12	17	30	6
Nickel	ppm	<1	0	0	0
Titanium	ppm	89	62	44	90
Silver	ppm	0	0	0	0
Manganese	ppm	2	<1	1	2
Vanadium	ppm	1	0	<1	<1



ADDITIVES

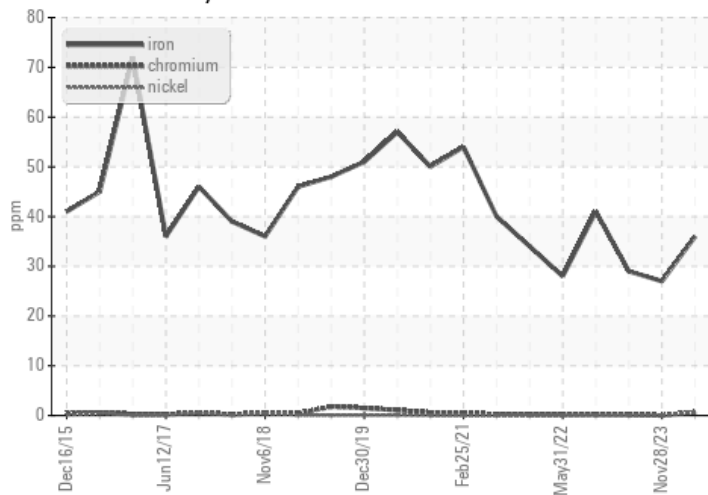
Calcium	ppm	1351	1293	1229	1412
Magnesium	ppm	707	755	809	624
Zinc	ppm	1154	1151	1213	1134
Phosphorus	ppm	1005	1053	1027	1032
Barium	ppm	1	0	0	<1
Boron	ppm	161	117	88	167

Depot: LEC0008
Unique No: 10941486
Signed: Jonathan Hester
Report Date: 27 Mar 2024

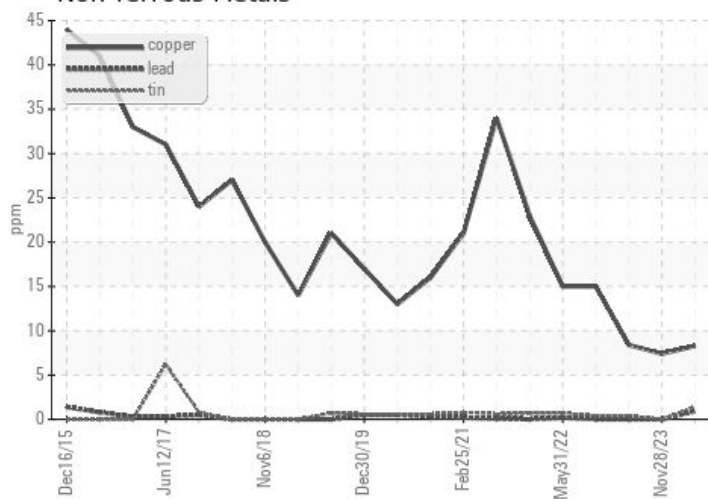


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

