

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30 120113-1253 - Transmission

Sample No: LH0264786

Oil Type: CHEVRON DELO LE 5W40



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Sample Information

Sample Number	LH0264786	LH0264327	LH0220990	LH0200608
Sample Date	21 Mar 2024	27 Jul 2023	28 Nov 2022	28 Feb 2022
Machine Hours	10009	9001	7984	5989
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	44.7	43.7	43.0	45.3
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	7	5	5
Sodium	ppm	3	4	5	3
Potassium	ppm	<1	<1	<1	5



Wear Metals

Iron	ppm	9	13	13	10
Copper	ppm	4	7	10	6
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	0	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	5	4	3	2
Nickel	ppm	0	0	0	0
Titanium	ppm	97	98	92	89
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	3	2
Vanadium	ppm	<1	1	<1	<1



Additives

Calcium	ppm	1391	1449	1402	1424
Magnesium	ppm	721	681	621	668
Zinc	ppm	1186	1166	1085	1220
Phosphorus	ppm	1055	1056	959	1087
Barium	ppm	0	0	0	0
Boron	ppm	187	208	162	165

Diagnosis

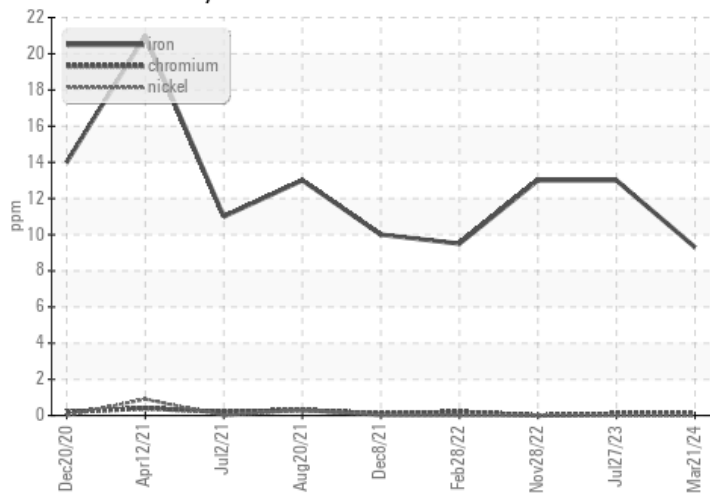
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10955361
Signed: Don Baldrige
Report Date: 04 Apr 2024

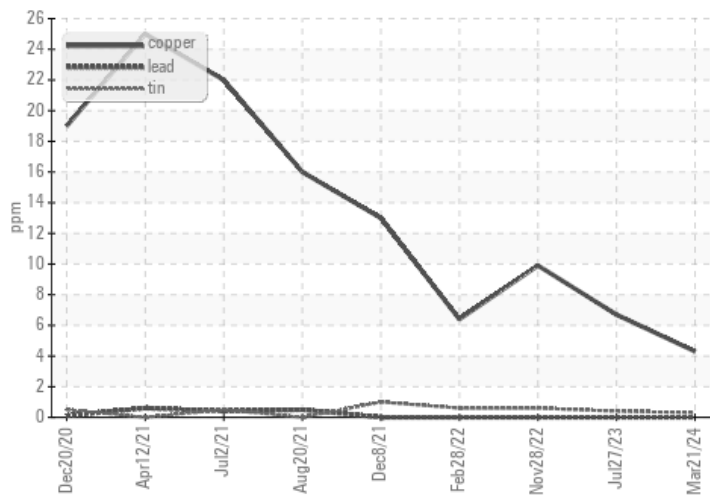


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

