

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Transmission (Manual)

Sample No: LH0254759

Oil Type: CHEVRON DELO 400 SYNTHETIC 5W40



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SAMPLE INFORMATION

Sample Number	LH0254759	LH0243213	LH0217648	LH0217491
Sample Date	23 Jun 2023	10 Jan 2023	05 Jul 2022	18 Feb 2022
Machine Hours	24973	24002	23011	22205
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	SEVERE	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	44.7	42.2	46.5	47.5
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CONTAMINATION

Silicon	ppm	8	11	9	11
Sodium	ppm	0	5	4	1
Potassium	ppm	2	<1	2	3



WEAR METALS

Iron	ppm	85	136	32	49
Copper	ppm	430	630	9	8
Lead	ppm	<1	6	0	0
Tin	ppm	9	15	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	33	10	59	120
Nickel	ppm	0	<1	0	0
Titanium	ppm	45	84	67	27
Silver	ppm	0	<1	<1	0
Manganese	ppm	4	6	2	3
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1209	1419	1433	1287
Magnesium	ppm	741	608	653	610
Zinc	ppm	1094	996	1081	936
Phosphorus	ppm	1015	1029	1025	854
Barium	ppm	2	0	0	0
Boron	ppm	103	158	187	218

Diagnosis

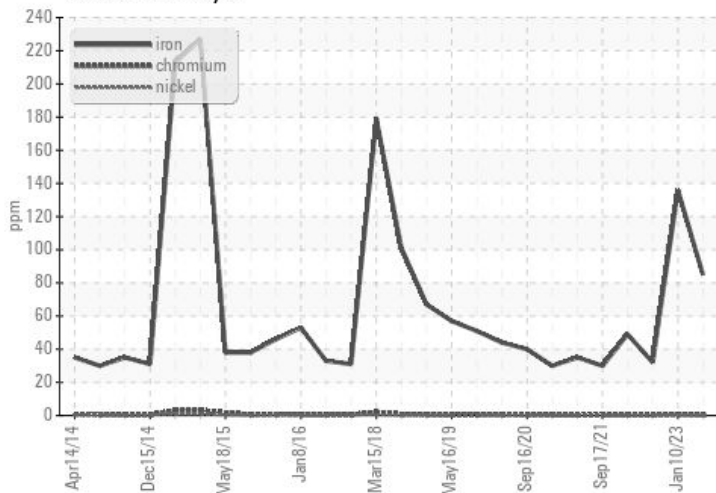
The fluid change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Clutch and/or bushing/bearing wear is indicated. There is no indication of any contamination in the fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: LEC0008
Unique No: 10546796
Signed: Don Baldrige
Report Date: 07 Jul 2023

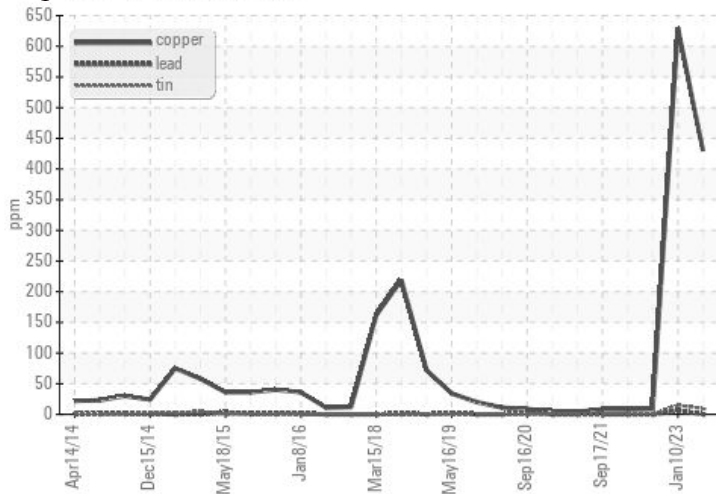


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

