

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 064064-1007 - Swing Drive

Sample No: LH0254762

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



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SAMPLE INFORMATION

Sample Number	LH0254762	LH0243218	LH0217641	LH0217495
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	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	130	141	131	130
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CONTAMINATION

Water	%	---	0.304	---	---
Silicon	ppm	3	4	1	1
Sodium	ppm	0	2	<1	<1
Potassium	ppm	2	3	1	2



WEAR METALS

Iron	ppm	570	1020	112	121
Copper	ppm	111	152	69	93
Lead	ppm	<1	1	0	0
Tin	ppm	8	12	5	7
Aluminum	ppm	<1	1	<1	0
Chromium	ppm	4	7	<1	<1
Molybdenum	ppm	<1	1	2	2
Nickel	ppm	1	1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	5	8	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	40	68	136	111
Magnesium	ppm	8	8	14	19
Zinc	ppm	49	27	67	53
Phosphorus	ppm	816	654	741	923
Barium	ppm	1	0	0	0
Boron	ppm	7	21	29	46

Diagnosis

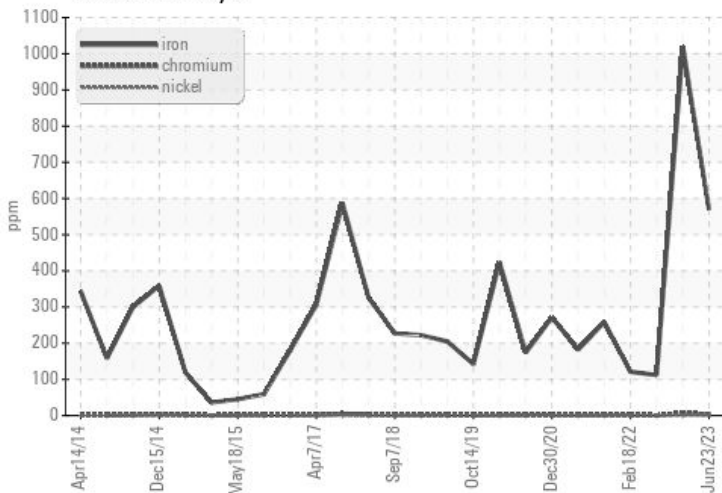
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10546778
 Signed: Angela Borella
 Report Date: 07 Jul 2023

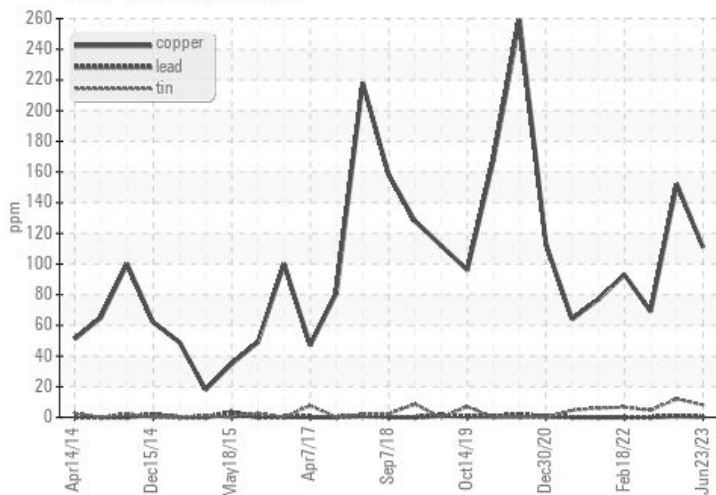


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

