

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-130391 - Rear Left Wheel Hub

Sample No: LH0272171

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90



VERSO CORP
7100 COUNTY 426 M.5 RD
ESCANABA, MI
US 49837
Contact: Service Manager



SAMPLE INFORMATION

Sample Number	LH0272171	LH0264352	LH0236056	LH0220815
Sample Date	07 Feb 2024	25 Jul 2023	01 Mar 2023	31 Aug 2022
Machine Hours	4773	3023	2059	1273
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	122	126	134	145
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	2	3	3
Sodium	ppm	2	2	2	1
Potassium	ppm	1	0	2	0



WEAR METALS

Iron	ppm	44	22	24	15
Copper	ppm	8	5	3	5
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	1	0	<1	1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	1	<1	1	2
Nickel	ppm	<1	0	0	<1
Titanium	ppm	1	<1	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	1	<1	2	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	91	28	53	170
Magnesium	ppm	8	1	8	15
Zinc	ppm	58	19	35	86
Phosphorus	ppm	1360	814	754	833
Barium	ppm	0	0	0	0
Boron	ppm	4	2	7	25

T:
F:

Diagnosis

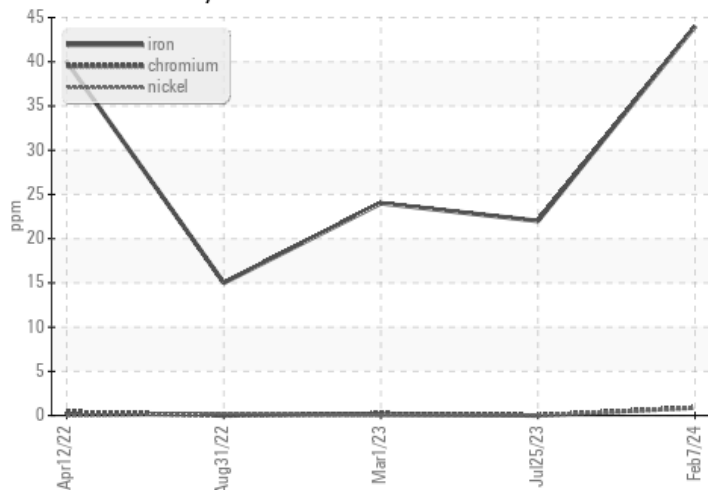
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VERESC
Unique No: 10884185
Signed: Don Baldrige
Report Date: 19 Feb 2024

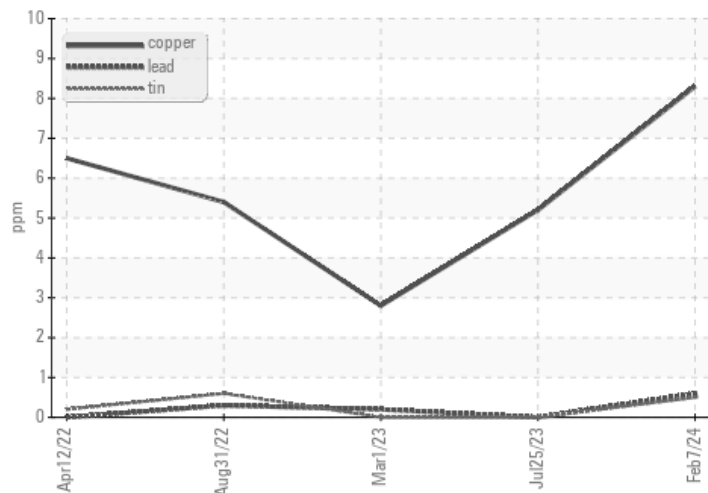


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

