

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-130391 - Front Right Wheel Hub

Sample No: LH0272165

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	LH0272165	LH0264359	LH0236055	LH0220819
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	138	176	131
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T:
F:



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	5	7	9
Sodium	ppm	4	4	6	3
Potassium	ppm	1	1	2	0

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.



WEAR METALS

Iron	ppm	117	69	67	56
Copper	ppm	12	12	5	13
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	1	<1	2
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	<1	<1	2
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	2	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

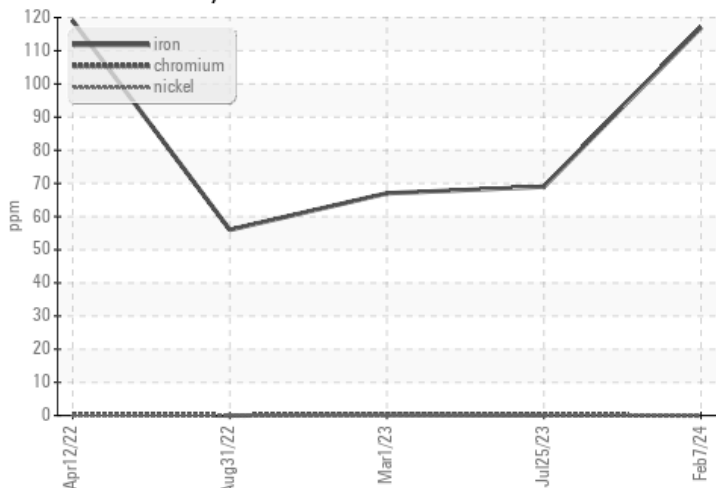
Calcium	ppm	62	66	90	147
Magnesium	ppm	7	8	6	9
Zinc	ppm	37	39	52	63
Phosphorus	ppm	860	1109	1848	954
Barium	ppm	0	0	0	0
Boron	ppm	3	2	3	13

Depot: VERESC
Unique No: 10884166
Signed: Don Baldrige
Report Date: 18 Feb 2024

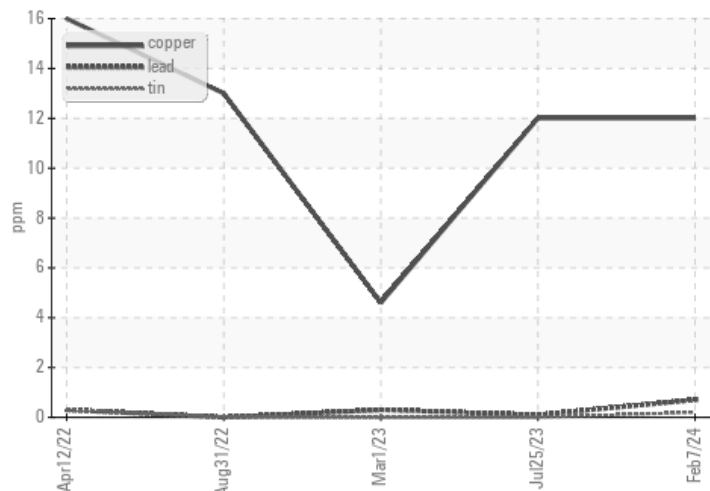


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

