

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-130391 - Swing Drive

Sample No: LH0272510

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	LH0272510	LH0264353	LH0236060	LH0220813
Sample Date	07 Feb 2024	25 Jul 2023	01 Mar 2023	31 Aug 2022
Machine Hours	4773	30232	2059	1273
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	124	138	134	133
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T:
F:



CONTAMINATION

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

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. An increase in the chrome and iron levels is noted. 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	775	136	62	49
Copper	ppm	39	37	18	29
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	0	0	<1
Chromium	ppm	10	1	<1	<1
Molybdenum	ppm	4	15	<1	2
Nickel	ppm	3	0	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	5	<1	2	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

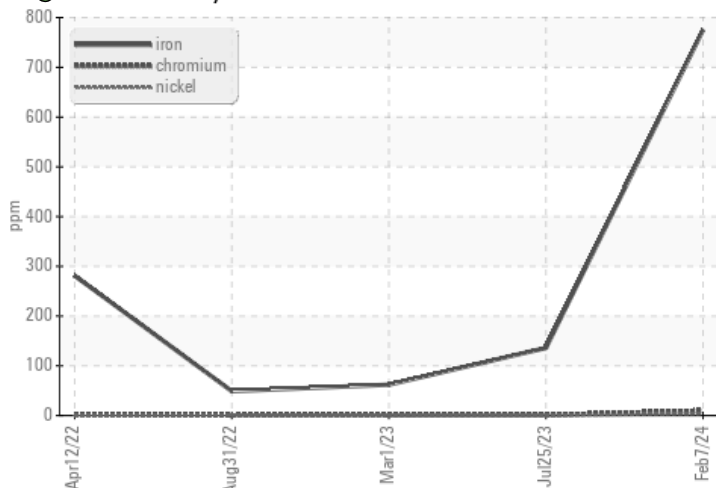
Calcium	ppm	41	91	60	156
Magnesium	ppm	9	40	8	15
Zinc	ppm	41	72	47	53
Phosphorus	ppm	840	729	829	963
Barium	ppm	0	0	0	2
Boron	ppm	21	19	22	26

Depot: VERESC
Unique No: 10884188
Signed: Don Baldrige
Report Date: 19 Feb 2024

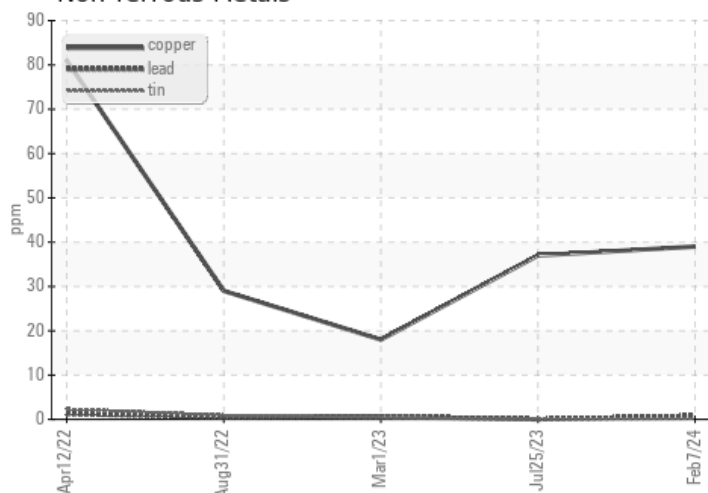


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

