# CONSTRUCTION EQUIPMENT

### LIEBHERR LH50 1216-130391 - Swing Drive

Sample No: LH0272510

Oil Type: CHEVRON DELO GEAR ESI OIL 80W90

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	<b>PLE INFO</b>	DRMATION				
Sample Number		LH0272510	LH0264353	LH0236060	LH0220813	
Sample Date		07 Feb 2024	25 Jul 2023	01 Mar 2023	31 Aug 2022	VER
Machine Hours		4773	30232	2059	1273	7100
Oil Hours		0	0	0	0	ESC
Oil Changed		Changed	Changed	Changed	Changed	US
Sample Status		ATTENTION	NORMAL	NORMAL	NORMAL	Con
OIL C	ONDITI	ON				T: F:
Visc @ 40°C	cSt	<b>124</b>	138	134	133	
						Dia
CON'	TAMINA	TION				Dia The
Water	%	NEG	NEG	NEG	NEG	sam
Silicon	ppm	<b>3</b>	0 1	2	○ <1	at th
Sodium	ppm	0 🔘	◯ <1	0 1	01	mor
Potassium	ppm	01	0	2	0	and
~						indi oil.
	R META	LS				acc
Iron	ppm	0 775	0 136	62	0 49	

Iron	ppm	0 775	0 136	62	0 49
Copper	ppm	0 39	◯ 37	0 18	29
Lead	ppm	<b>○</b> <1	0	◯ <1	◯ <1
Tin	ppm	<b>○</b> <1	0	◯ <1	◯ <1
Aluminum	ppm	01	0	0	○ <1
Chromium	ppm	0 10	01	◯ <1	○ <1
Molybdenum	ppm	04	0 15	◯ <1	2
Nickel	ppm	03	0	0	◯ <1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	0 5	○ <1	2	◯ <1
Vanadium	ppm	<1	0	0	0

٥ **ADDITIVES** Calcium 0 41 ppm 91 60 0 156 09 0 40 8 Magnesium 0 15 ppm Zinc 072 0 47 0 53 0 41 ppm 0 729 0 829 Phosphorus ppm 0840 963 Barium 0  $\bigcirc 0$ 0 ppm 02 Boron 0 22 0 26 ppm 0 21 0 19





#### VERSO CORP

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

## 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.

Depot:	VERES
Unique No:	10884
Signed:	Don Ba
Report Date:	19 Feb

RESC 884188 In Baldridge Feb 2024





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**GRAPHS** 

#### ● Ferrous Alloys iron 700 🖛 chromium nickel 600 500 뵵 400 300 200 100 0 Mar1/23 -Feb7/24 -Apr12/22 Jul25/23 Aug31/22 Non-ferrous Metals 90 copper 80 🐜 lead • tin 70 60 50 법 40-30 20 10 0 #\*\*\*\*\*\*\*\* Mar1/23 -Feb7/24 -Jul25/23 Apr12/22 Aug31/22 Viscosity @ 40°C 180 170 Að 160 150 (2-04) 140 25 Base 130 120 110 Abnormal 100 Apr12/22 -Feb7/24 -Mar1/23 -Aug31/22 Jul25/23