CONSTRUCTION EQUIPMENT

LIEBHERR LH4OC 103882-1527 - Swing Drive

Sample No: LH0286880

Oil Type: GEAR OIL SAE 80W90

Sample Information

Sample Number	LH0286880	LH0261465	LH0247337	LH0224520
Sample Date	18 Apr 2024	29 Jun 2023	08 Mar 2023	25 Oct 2022
Machine Hours	10300	9040	8400	7787
Oil Hours	1000	640	613	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL
Oil Condition				
Visc @ 40°C cSt	0 142	142	139	0 131
1				

Cor	ntaminati	ion				
Water	%	0.569	NEG	NEG	NEG	
Silicon	ppm	06	06	07	0 4	
Sodium	ppm	○ <1	0 1	0 1	2	
Potassium	maa	0 <1	0 <1	02	03	

Ä					
Wea	r Metals				
Iron	ppm	0 279	0 146	206	O 361
Copper	ppm	0 45	32	080	240
Lead	ppm	○ <1	○ <1	2	5
Tin	ppm	01	◯ <1	0 1	02
Aluminum	ppm	0	0	○ <1	0 ()
Chromium	ppm	3	0 1	2	04
Molybdenum	ppm	0	○ <1	0	○ <1
Nickel	ppm	○ <1	0	○ <1	○ <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	02	01	2	03
Vanadium	ppm	0	0	0	0

ø **Additives** Calcium ppm 05 6 $\bigcirc 4$ 04 Magnesium 01 \bigcirc $\bigcirc 2$ 2 ppm 1 Zinc 0 16 06 9 0 12 ppm Phosphorus ppm 0 548 0 616 63 0 628 Barium 0 ppm $\bigcirc 0$ 0 0 Boron 03 ppm $\bigcirc 4$ $\bigcirc 5$ $\bigcirc 6$





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Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate concentration of water present in the oil. Sulfur ppm levels are abnormally low. The oil is no longer serviceable due to the presence of contaminants.

 Depot:
 DOMBUR

 Unique No:
 5763838

 Signed:
 Kevin Marson

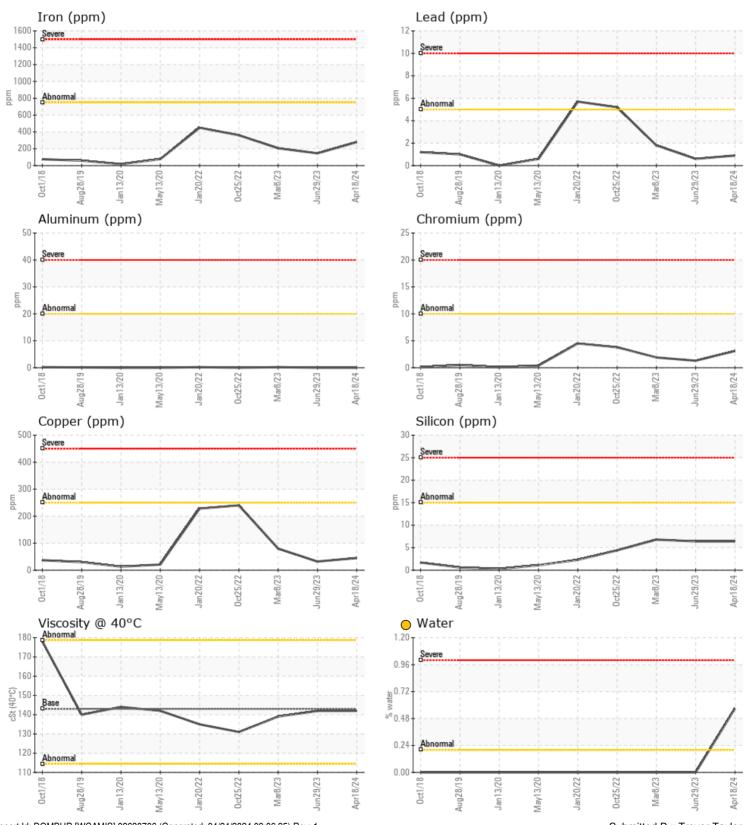
 Report Date:
 24 Apr 2024

 Submitted By: Trevor Taylor





Graphs



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