CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 1216-118289 - Swing Drive

Sample No: LH06135807

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Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Additives

ppm

ppm

ppm

ppm

ppm

ppm

Oil Type: GEAR OIL SAE 80W90

Sample Information

Sample Number	LH06135807	LH05693566	LH05370573	
Sample Date	31 Mar 2024	13 Nov 2022	10 Oct 2021	
Machine Hours	5050	0	1635	
Oil Hours	0	0	0	
Oil Changed	Not Changd	N/A	N/A	
Sample Status	NORMAL	NORMAL	NORMAL	



Contamination						
Water	%	NEG	NEG	NEG		
Silicon	ppm	09	07	0 17		
Sodium	ppm	07	0 1	6		
Potassium	ppm	03	0	0 1		

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Wed Wed	<mark>ır Metal</mark> s	5			
Iron	ppm	228	60	◯ 159	
Copper	ppm	0 183	◯ 33	0 49	
Lead	ppm	0 (0	◯ <1	
Tin	ppm	0 10	01	2	
Aluminum	ppm	○ <1	◯ <1	5	
Chromium	ppm	<mark>()</mark> <1	0	◯ <1	
Molybdenum	ppm	0 (◯ <1	<1	
Nickel	ppm	○ <1	0	◯ <1	
Titanium	ppm	0	0	<1	
Silver	ppm	0	0	<1	
Manganese	ppm	3	◯ <1	2	
Vanadium	ppm	0	0	0	

29

 $\bigcirc 0$

23

0 672

 $\bigcirc 0$

 $\bigcirc 1$

29

20

12

2047

 -- KOVALCHICK CORP

 -- 1060 WAYNE AVENUE

 -- INDIANA, PA

 -- US 15701

 -- Contact: Service Manager

T: F:

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.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:	KOV
Unique No:	1095
Signed:	Wes
Report Date:	02 A

VIND 955272 es Davis Apr 2024 Submitted By: ? Page 1 of 2

0 29

○ <1

0 47

011

07

0 2045







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Graphs

Ferrous Alloys 240iron 220 • chromium 200 nickel 180 160 140 튭 120 100 80 60 40 20 0. Mar31/24 0ct10/21 Nov13/22 Non-ferrous Metals 200 copper 180 🛤 lead tin 160 140 120 툡 100 80 60 40 20 0. Nov13/22 -0ct10/21 Mar31/24 Viscosity @ 40°C 200 Abnormal 190 180 170 (40 °C) දු 120 දි Base 140 130 120 Abnormal 110 Mar31/24 -Nov13/22 0ct10/21

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