CONSTRUCTION EQUIPMENT

LIEBHERR LH60C 106512-1528 - Swing Drive

Sample No: LH0288231

Oil Type: LIEBHERR GEAR BASIC 90 LS

Sample Information

Sample Number	LH0288231	LH0278579	LH	LH0234439
Sample Date	29 Apr 2024	05 Jan 2024	23 Aug 2023	12 Jun 2023
Machine Hours	23144	21976	0	19187
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL
Oil Condition				
Visc @ 40°C cSt	0 162	229	148	0 103

Con	taminati	on				
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	3	○ 5	2	2	
Sodium	ppm	◯ <1	0 1	○ <1	◯ <1	
Potassium	ppm	() <1	○ <1	◯ <1	◯ <1	

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₩ee Wee	ar Metals	5			
PQ			248		
Iron	ppm	667	0 1432	558	0 191
Copper	ppm	0 187	0 123	37	26
Lead	ppm	04	03	2	○ <1
Tin	ppm	03	03	◯ <1	○ <1
Aluminum	ppm	○ <1	○ <1	◯ <1	○ <1
Chromium	ppm	06	0 15	6	2
Molybdenum	ppm	03	0	◯ <1	○ <1
Nickel	ppm	○ <1	0 2	0 1	○ <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	04	○ 10	0 4	01
Vanadium	ppm	0	0	0	0

Additives						
Calcium	ppm	55	07	0 13	09	
Magnesium	ppm	58	01	01	2	
Zinc	ppm	073	0 11	0 11	0 10	
Phosphorus	ppm	O 2143	2143	0 1798	0 1240	
Barium	ppm	0	0	0	0	
Boron	ppm	0 43	38	36	285	



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Diagnosis

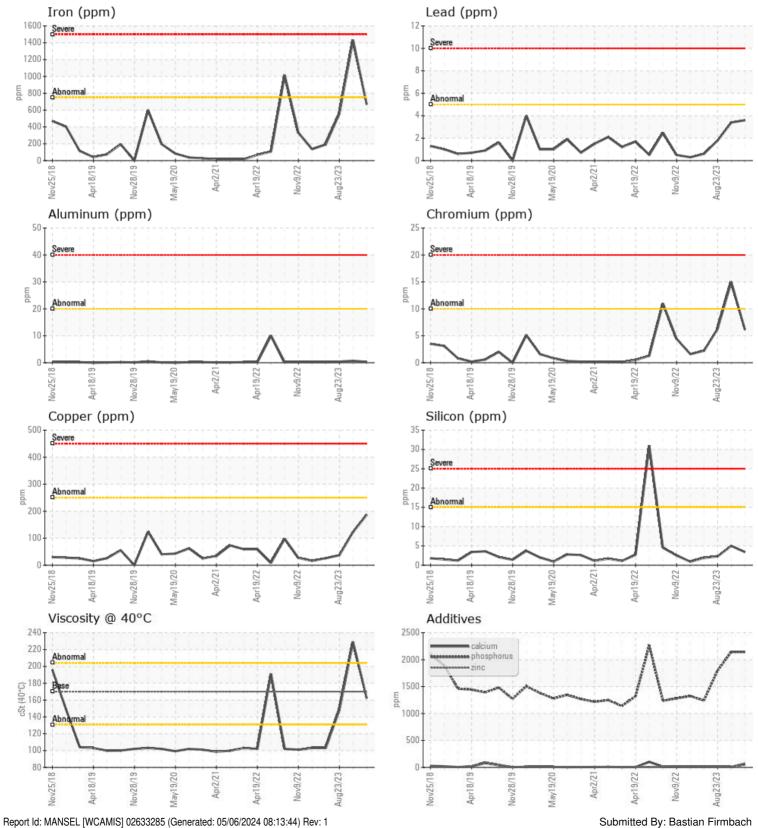
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot:MANSELUnique No:5774438Signed:Wes DavisReport Date:03 May 2024Submitted By: Bastian Firmbach





Graphs



by: Baolan I inibaon