LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L580 1414-56018 - Front Differential

Sample No: LH06027240

Sodium

Potassium

Oil Type: LIEBHERR GEAR BASIC 90 LS

0

0<1

ppm

ppm

5							
SAMI	PLE INFO	RMATION					
Sample Number		LH06027240	LH05836131	LH05785859	VCP05725552		
Sample Date		05 Dec 2023	01 May 2023	06 Mar 2023	26 Dec 2022		
Machine Hours		0	13020	0	0		
Oil Hours		15017	0	1208	10993		
Oil Changed		Changed	Changed	Changed	Changed		
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL		
OIL CONDITION							
Visc @ 40°C	cSt	175	O 189	190	O 170		
-4							
CONTAMINATION							
Water	%	NEG	NEG	NEG	NEG		
Silicon	ppm	5	0 8	9	O 7		

WEA	R META	LS				
Iron	ppm	269	O 191	O 196	O 217	
Copper	ppm	<u> </u>	<u> </u>	<u> </u>	158	
Lead	ppm	0 <1	O 0	O 0	0 8	
Tin	ppm	10	0 8	10	5	
Aluminum	ppm	2	<1	<1	O 0	
Chromium	ppm	1	O <1	O 1	O 1	
Molybdenum	ppm	○ <1	O 0	<1	O 0	
Nickel	ppm	○ <1	O 0	<1	0	
Titanium	ppm	0	O 0	O 0	O 0	
Silver	ppm	0	0	0	0	
Manganese	ppm	2	O 2	O 2	O 2	
Vanadium	ppm	0	<1	<1	0	

02

Vanadium	ppm	0	<1	<1	0		
ADDITIVES							
Calcium	ppm	29	O 11	O 7	O 13		
Magnesium	ppm	0	0	O <1	0		
Zinc	ppm	38	O 52	35	37		
Phosphorus	ppm	2746	2798	2289	2818		
Barium	ppm	0	O 0	0	0		
Boron	ppm	0	O 0	0	0		





VERSO CORP - QUINNESEC MILL

W6791 US HWY 2 QUINNESEC, MI US 49876

Contact: ERIC LARSON eric.larson@versoco.com

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Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VERQUIUnique No:10777031Signed:Angela BorellaReport Date:08 Dec 2023

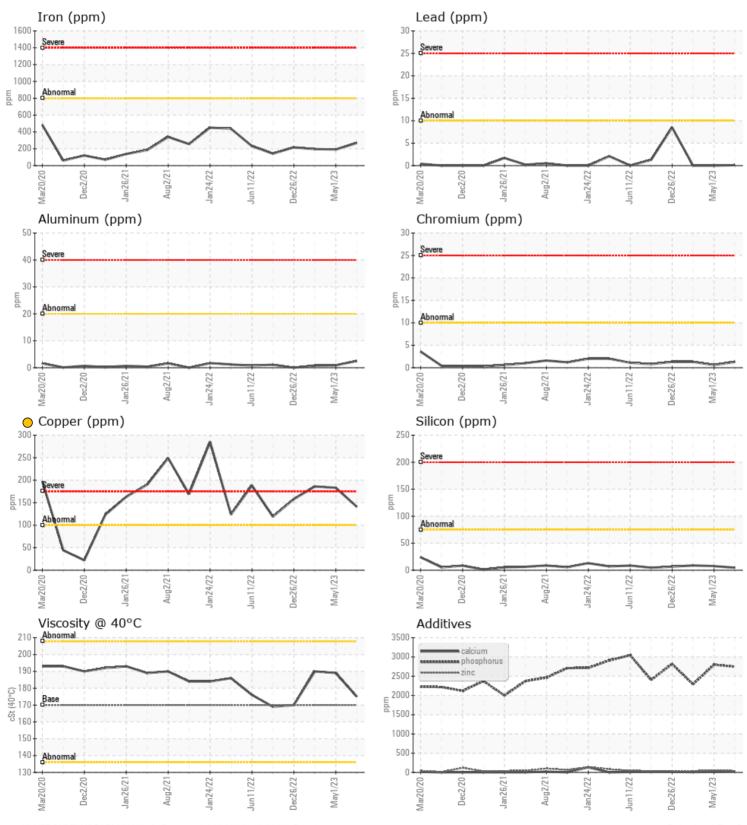
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



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