CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 144587-1216 - Hydraulic System

Sample No: LH

Oil Type: **NOT GIVEN**





Industrial Metals

550 Messier St. Winnipeg, MB CA R2J 0G5

Contact: Service Manager

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	OIL CO	NDITION
Visc @	40°C	cSt

42.5

F:

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CONTAMINATION						
Water	%	0.057	NEG	NEG		
Particles >4µm		O 151529	O 23363	O 21447		
Particles >6µm		89584	8769	O 5908		
Particles >14μm		7632	0 770	O 144		
ISO 4406:1999 (c)		24/24/20	22/20/17	22/20/14		
Silicon	ppm	4	3	02		
Sodium	ppm	2	O 2	O 2		
Potassium	nnm	0-1	0 1	0 -1		

	1-1-			0	
₩E/	AR META	LS			
			0.40		
Iron	ppm	14	O 12	9	
Copper	ppm	5	3	O 4	
Lead	ppm	1	O 1	2 0	
Tin	ppm	0	O 0	O 0	
Aluminum	ppm	○ <1	O <1	<1	
Chromium	ppm	2	O <1	O <1	
Molybdenum	ppm	0	0	0	
Nickel	ppm	○ <1	O <1	<1	
Titanium	ppm	0	0	0	
Silver	ppm	<1	<1	0	
Manganese	ppm	0	<1	<1	
Vanadium	ppm	0	0	0	

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you follow the water drain-off procedure for this component. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. Free water present. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

ADD	DITIVES				
Calcium	ppm	1117	1273	1395	
Magnesium	ppm	4	4	4	
Zinc	ppm	728	722	726	
Phosphorus	ppm	618	673	732	
Barium	ppm	<1	0	0	
Boron	ppm	2	1	2	

Depot: IND550WIN Unique No: 5696328 Signed: Kevin Marson Report Date: 19 Dec 2023

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GRAPHS

