E **CONSTRUCTION EQUIPMENT**

[(357698)] LIEBHERR LH50M 125637-1216 - Hydraulic System

Sample No: LH0260570

Oil Type: PETRO CANADA ENVIRON MV 46

SAMPLE INFORMATION

Sample Number	LH0260570	LH0212575	LH0212561	LH0212547	
Sample Date	05 Feb 2024	31 Aug 2023	10 Sep 2022	05 Apr 2022	
Machine Hours	5010	4243	2241	1267	
Oil Hours	0	0	0	0	
Oil Changed	Not Changd	Changed	Changed	Changed	
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ATTENTION	

OILCONDITION						
Visc @ 40°C	cSt	40.6	○ 40.6	● 41.6	0 42.5	
Acid Number (AN)	mg KOH/g		0.67	0 1.04	1.35	
- 1						

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		0 342	◯ 312	0 999	0 1352
Particles >6µm		5 2	87	0 156	0 124
Particles >14µm		05	08	0 14	0 10
ISO 4406:1999 (c)		16/13/10	15/14/10	17/14/11	18/14/10
Silicon	ppm	0 2	0 2	02	02
Sodium	ppm	() <1	0 1	01	◯ <1
Potassium	ppm	01	○ <1	○ <1	0 1

WEAR METALS

PQ		0	0		
Iron	ppm	<u> </u>	5 5	0 43	29
Copper	ppm	3	0 4	3	3
Lead	ppm	01	○ <1	○ <1	○ <1
Tin	ppm	○ <1	0	0	0
Aluminum	ppm	○ <1	○ <1	○ <1	○ <1
Chromium	ppm	01	01	○ <1	○ <1
Molybdenum	ppm	0	0	○ <1	○ <1
Nickel	ppm	○ <1	○ <1	○ <1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	○ <1	○ <1	○ <1	○ <1
Vanadium	ppm	0	0	0	0

ADDITIVES							
Calcium	ppm	0 559	668	903	0 1042		
Magnesium	ppm	04	0 4	04	5		
Zinc	ppm	0 279	346	0 443	526		
Phosphorus	ppm	607	O 609	644	635		
Barium	ppm	0	0	0	0		
Boron	ppm	○ <1	01	○ <1	0 1		





SCH123SUR

5735495

Kevin Marson 28 Feb 2024



RADIUS RECYCLING - SURREY 12301 MUSQUEAM DRIVE SURREY, BC CA V3V 3T2 Contact: Service Manager

T: F:

Diagnosis

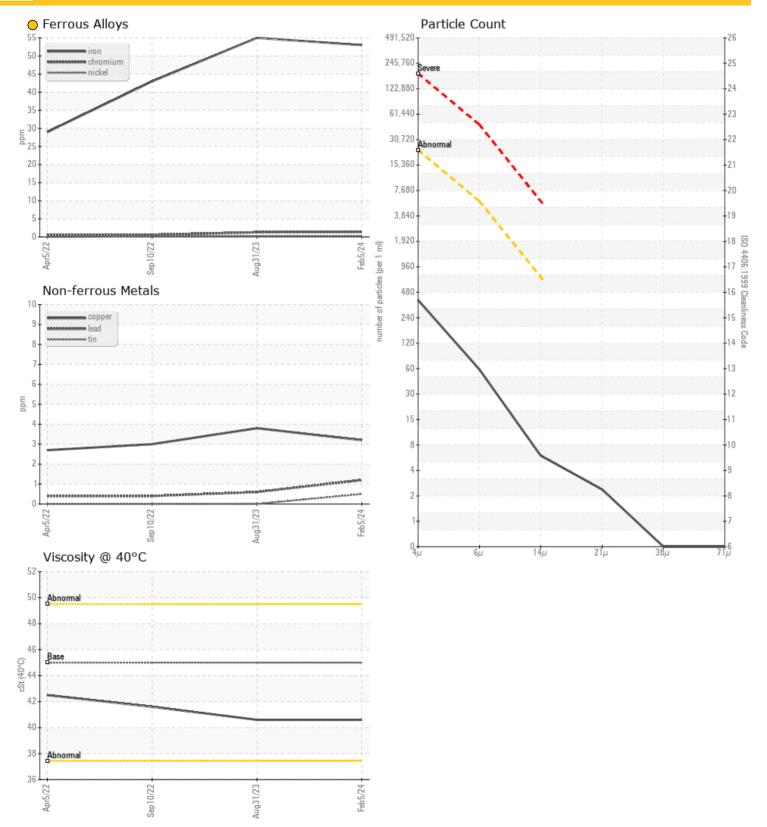
We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





GRAPHS

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