CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 086015-1203 - Transmission (Manual)

Sample No: LH0278358

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Oil Type: PETRO CANADA 15W40

SAMPLE INFORMATION

Sample Number	LH0278358	LH0234496	LH0137157	LH0121288		
Sample Date	28 Nov 2023	27 Jun 2022	07 Mar 2019	13 Feb 2018		
Machine Hours	20736	17693	10268	5271		
Oil Hours	0	0	0	0		
Oil Changed	Changed	Changed	Changed	Changed		
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL		
OIL CONDITION						
Visc @ 40°C cSt	7 9.8	0 86.8	48.8	◯ 42.0		

Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	04	02	5	0 4	
Sodium	ppm	03	2	0 11	◯ 35	
Potassium	ppm	0 <1	0 10	04	01	

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PQ				85	26
Iron	ppm	◯ 34	○ 29	208	206
Copper	ppm	<u> </u>	5	0 49	0 183
Lead	ppm	0 10	○ <1	01	7
Tin	ppm	○ <1	○ <1	0 1	2
Aluminum	ppm	04	01	6	07
Chromium	ppm	0	0	◯ <1	○ <1
Molybdenum	ppm	5 4	27	38	<1
Nickel	ppm	0	0	○ <1	◯ <1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	03	01	11	30
Vanadium	ppm	0	0	0	<1

ADDITIVES Calcium 1608 3194 960 513 ppm Magnesium 0812 0 434 0 600 9 ppm Zinc ppm 0 1050 0 565 0 1099 1081 Phosphorus 0 1097 0 1153 0 978 ppm 1067 Barium ppm ◯ <1 0 () 0 🔘 Boron ppm 023 164 03

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Dartmouth Metals & Bottle Ltd. 14 Dawn Drive Dartmouth, NS CA B3B 1H9 Contact: Service

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Diagnosis

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Copper ppm levels are abnormal. Clutch disc wear or oil cooler leaching indicated. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:	DAR
Unique No:	5708
Signed:	Kevir
Report Date:	11 Ja

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