LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH40 121161 - Hydraulic System

Sample No: LH

Oil Type: PETRO CANADA HYDREX AW 46

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Samp	le Informa	ation		
Sample Number		LH	LH0186136	
Sample Date		27 Mar 2024	18 Dec 2020	
Machine Hours		14060	1105	
Oil Hours		0	0	
Oil Changed		Not Changd	Changed	
Sample Status		ABNORMAL	SEVERE	
Varipic Otatus		ADITOTIWAL	OLVLITE	
Oil Co	ndition			
Visc @ 40°C	cSt	O 31.4	O 42.1	
Conta	mination			
Water	%	NEG	NEG	
Particles >4µm		O 13218	71271	
Particles >6µm		3405	22540	
Particles >14µm		206	0 1455	
ISO 4406:1999 (c)		21/19/15	23/22/18	
Silicon	ppm	0 1	02	
Sodium	ppm	0 1	0 2	
Potassium	ppm	0 <1	3	
	Metals			
PQ		0		
Iron	ppm	26	O 12	
Copper	ppm	2	0 2	
Lead	ppm	0 0	0 2	
Tin	ppm	0	00	
Aluminum	ppm	O <1	0 <1	
Chromium	ppm	2	O <1	
Molybdenum Nickel	ppm	O <1	0	
	ppm	0	0	
Titanium	ppm	<1	0	
Silver	ppm	0 <1	5 <1	
Manganese	ppm	_	0	
Vanadium Addit	ives	0	Ü	
Calcium	ppm	318	880	
Magnesium	ppm	35	0 8	
Zinc	ppm	499	730	
Phosphorus	ppm	402	O 595	
Barium	ppm	0 0	0 <1	
Boron	ppm	2	0 <1	
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LIEBHERR CANADA LTEE

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CA G8L 3M7

Contact: Martin Gagnon martin.gagnon@liebherr.com

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Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot:LBADOLUnique No:5763416Signed:Kevin MarsonReport Date:22 Apr 2024

Submitted By: Marie-Eve Belley

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Graphs

