LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L586 058216-1334 - Hydraulic System

Sample No: LH0284800

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

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San	iple Info	rmation			
Sample Number		LH0284800	LH0278406	LH0269548	LH0238507
Sample Date		01 Jun 2024	25 Nov 2023	19 Jul 2023	27 Aug 2022
Machine Hours		9663	8879	7908	0
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Not Changd	Changed
Sample Status		SEVERE	SEVERE	SEVERE	SEVERE
Oil	Condition	n			
Visc @ 40°C	cSt	41.6	39.6	O 41.7	42.0
Con	taminati	ion			

Water % NEG NEG NEG NEG	
Particles >4μm	
Particles >6μm	
Particles >14μm	
ISO 4406:1999 (c) 22/17/14 21/15/12 23/20/14 22/16/10	
Silicon	
Sodium ppm 4 ○ 7 4 ○ 4	
Potassium ppm ○ 7 ○ 14 ○ 6 ○ 5	

Wed	ır Metals	3			
PQ		0 0	O 0	O 0	O 0
Iron	ppm	75	0 74	0 71	S 58
Copper	ppm	9	9	0 8	7
Lead	ppm	14	<u> </u>	1 4	<u> </u>
Tin	ppm	 <1	<1	<1	 <1
Aluminum	ppm	30	2 8	O 26	2 3
Chromium	ppm	7	<u> </u>	6	O 4
Molybdenum	ppm	0	O 0	O 0	0
Nickel	ppm	0	O <1	O <1	O 0
Titanium	ppm	1	<1	1	1
Silver	ppm	0	<1	0	0
Manganese	ppm	1	O <1	O 1	O 1
Vanadium	ppm	0	0	<1	<1

Additives						
Calcium	ppm	1308	1303	1331	1355	
Magnesium	ppm	27	O 27	O 27	O 24	
Zinc	ppm	729	O 736	732	O 682	
Phosphorus	ppm	591	O 593	○ 639	O 564	
Barium	ppm	○ <1	O <1	O <1	0	
Boron	ppm	3	O 4	3	O <1	



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364 BRIGGS CROSS ROAD STILESVILLE, NB CA E1G 3G3 Contact: Blaine Cail

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T: F:

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium and iron ppm levels are abnormal. Aluminum ppm levels are noted. Ring wear is indicated. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. 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.

Depot: MODSTI
Unique No: 5798983
Signed: Kevin Marson
Report Date: 13 Jun 2024

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Graphs

