LIEBHERR

CONSTRUCTION EQUIPMENT



Sample No: LH0280946

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Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

Sample Inform	ation			
Sample Number	LH0280946	LH0218507	LH0218518	LH0191771
Sample Date	25 Apr 2024	01 Apr 2022	27 Nov 2021	09 Apr 2021
Machine Hours	17190	13123	12341	10557
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	SEVERE	SEVERE	ABNORMAL
A				



CLOVERDALE FUEL LTD.

PO BOX 3163 LANGLEY, BC CA V3A 4R5

Contact: Maintenance Manager

T: (604)534-4314

F:

sc @ 40°C	cSt

Oil Condition

CSI	\cup	43.

40.9	

38.9

38.8

Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF).Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Conta	mination				
Water	%	NEG	NEG	NEG	NEG
Particles >4µm		<u> </u>	6056	9340	4258
Particles >6µm		<u> </u>	O 1119	O 2477	O 561
Particles >14μm		43	O 120	O 292	6 3
ISO 4406:1999 (c)		24/21/13	20/17/14	20/18/15	19/16/13
Silicon	ppm	3	O 2	O 2	O 2
Sodium	ppm	0 <1	1	O 1	O 1
Potassium	ppm	() <1	0 1	0 <1	0 <1

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Wea	r Metal:	S				
PQ		0 0	0 0	0 0		
Iron	ppm	78	4 0	4 0	18	
Copper	ppm	○ <1	3	3	3	
Lead	ppm	0	O 2	O 2	O 2	
Tin	ppm	0	 <1	<1	O 0	
Aluminum	ppm	○ <1	O <1	<1	O <1	
Chromium	ppm	2	O 2	O 2	O 2	
Molybdenum	ppm	○ <1	O <1	O <1	O <1	
Nickel	ppm	0	<1	0	0	
Titanium	ppm	0	0	0	0	
Silver	ppm	0	0	<1	<1	
Manganese	ppm	○ <1	O <1	<1	O <1	
Vanadium	ppm	0	0	0	0	

Add	itives				
Calcium	ppm	57	O 72	O 103	O 116
Magnesium	ppm	2	O 2	O 2	0 2
Zinc	ppm	446	401	O 411	○ 406
Phosphorus	ppm	399	○ 341	○ 342	○ 308
Barium	ppm	0	0	O 0	O <1
Boron	ppm	0 <1	O <1	O <1	O <1

Depot:CLOLANUnique No:5773967Signed:Kevin MarsonReport Date:03 May 2024

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Graphs

