CONSTRUCTION EQUIPMENT

24016 - Hydraulic System

Sample No: LH0276281

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

Sample Inform	nation			
Sample Number	LH0276281	LH0225797	LH0216222	LH0234755
Sample Date	08 Apr 2024	10 Oct 2023	21 Apr 2023	25 Jul 2022
Machine Hours	21501	20995	20510	19901
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL
Oil Condition				



Conta	ımination				
Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1864	670	1083	O 14107
Particles >6µm		141	O 95	187	2980
Particles >14μm		12	10	17	O 94
ISO 4406:1999 (c)		18/14/11	17/14/10	17/15/11	21/19/14
Silicon	ppm	0	0 1	O 1	O 2
Sodium	ppm	() <1	O <1	O <1	O 1
Potassium	ppm	01	0 <1	0 <1	0 1

Wear Metals					
Iron	ppm	8	8	6	8
Copper	ppm	2	0 2	O 2	O 2
Lead	ppm	0	O <1	O 0	O <1
Tin	ppm	0	O 0	O 0	0
Aluminum	ppm	() <1	O <1	<1	 <1
Chromium	ppm	3	O 2	O 2	0 2
Molybdenum	ppm	() <1	1	O 2	3
Nickel	ppm	0	O <1	O 0	 <1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	0	O 0	O 0	 <1
Vanadium	ppm	0	0	0	0

Vanadium	ppm	0	0	0	0		
Additives							
Calcium	ppm	166	O 175	189	O 245		
Magnesium	ppm	31	32	36	55		
Zinc	ppm	545	O 551	O 556	O 492		
Phosphorus	ppm	439	O 443	491	416		
Barium	ppm	0	O <1	O	O 0		
Boron	ppm	4	5	5	0 8		



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Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill.

Resample at the next service interval to monitor. The fluid was specified as PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL,

however, a fluid match indicates that this fluid is ISO 32 AW Hydraulic Oil. Please confirm the oil type and grade on your next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Depot: **AMEHAM** Unique No: 5761037 Signed: Kevin Marson **Report Date:** 11 Apr 2024

LIEBHERR







Graphs

