LIEBHERR

CONSTRUCTION EQUIPMENT

096750-1204 - Hydraulic System

Sample No: LH0274879

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

SAMPLEINFORMATION							
Sample Number	LH0274879	LH0270241	LH0270242	LH0216226			
Sample Date	31 Oct 2023	17 Oct 2023	16 Oct 2023	02 May 2023			
Machine Hours	10469	10394	10590	9957			
Oil Hours	0	0	0	0			
Oil Changed	Not Changd	Changed	Not Changd	Changed			
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL			

0	OIL CO	NDITION				
Visc @	40°C	cSt	39.8	43.5	○ 37.8	39.6

CONT	CONTAMINATION					
Particles >4µm		4761	2975	138	○ 246	
Particles >6µm		469	O 641	37	7 0	
Particles >14µm		12	19	4	6	
ISO 4406:1999 (c)		19/16/11	19/17/11	14/12/9	15/13/10	
Silicon	ppm	() <1	O <1	1	O <1	
Sodium	ppm	1	O <1	O 2	O <1	
Potassium	ppm	0 0	0	O <1	0 <1	

()		_			
₩ WEA	R METAI	LS			
Iron	ppm	7	3	0 8	O 9
Copper	ppm	2	O 1	O 2	3
Lead	ppm	() <1	O <1	<1	O <1
Tin	ppm	0	O 0	0	0
Aluminum	ppm	 <1	O 0	<1	O <1
Chromium	ppm	○ <1	O 0	O <1	O <1
Molybdenum	ppm	2	O <1	3	7
Nickel	ppm	0	O <1	O <1	O <1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	0	0	0	O <1
Vanadium	ppm	0	0	0	0

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ADD					
	ITIVES	0.010	0.154	000	0.50
Calcium	ppm	213	O 154	228	O 52
Magnesium	ppm	3	O 2	3	O 1
Zinc	ppm	762	O 811	O 644	O 656
Phosphorus	ppm	612	O 628	O 511	O 595
Barium	ppm	() <1	O <1	O <1	O 0
Boron	ppm	○ <1	O <1	1	O <1





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Diagnosis

Resample at the next service interval to monitor. 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. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.

Depot:AME120OTTUnique No:5671027Signed:Kevin MarsonReport Date:03 Nov 2023

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GRAPHS

