CONSTRUCTION EQUIPMENT

LIEBHERR R945 055435-1866 - Hydraulic System

Sample No: LH0252145

Oil Type:

SAMPLE INFORMATION

Sample Number	LH0252145	LH0256976	
Sample Date	27 Nov 2023	27 Mar 2023	
Machine Hours	2000	1015	
Oil Hours	0	0	
Oil Changed	Not Changd	Not Changd	
Sample Status	NORMAL	ATTENTION	
	N		
Visc @ 40°C cSt	42.9	◯ 43.9	

1.68

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

Visc @ 40°C cSt Acid Number (AN) mg KOH/g

CONTAMINATION

Water	%	NEG	NEG		
Particles >4µm		9982	28440		
Particles >6µm		2537	9695		
Particles >14µm		6 3	0 401		
ISO 4406:1999 (c)		20/19/13	22/20/16		
Silicon	ppm	04	0 4		
Sodium	ppm	3	2		
Potassium	ppm	<mark>()</mark> <1	01		
Particles >14µm ISO 4406:1999 (c) Silicon Sodium	ppm	 63 20/19/13 4 3 	 ↓ 401 22/20/16 ↓ 4 ↓ 2 	 	

WEAR METALS

Iron	ppm	08	8	
Copper	ppm	05	0 4	
Lead	ppm	◯ <1	○ <1	
Tin	ppm	0 🔘	0	
Aluminum	ppm	○ <1	○ <1	
Chromium	ppm	○ <1	○ <1	
Molybdenum	ppm	0 🔘	0	
Nickel	ppm	0 🔘	○ <1	
Titanium	ppm	0	0	
Silver	ppm	<1	2	
Manganese	ppm	0 🔘	<1	
Vanadium	ppm	0	0	

ADDITIVES

Calcium	ppm	1352	1479	 	
Magnesium	ppm	3	4	 	
Zinc	ppm	0 725	726	 	
Phosphorus	ppm	656	718	 	
Barium	ppm	() <1	0	 	
Boron	ppm	<mark></mark> <1	<1	 	





CLOUTHIER VENTURES LTD.

59 MATTHEWS STREET, R.R. # 5 PEMBROKE, ON CA K8A 0A6 Contact: Travis Bennett tbennett@clouthierconst.com T: (613)735-6531 F: (613)735-2769

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: Unique No: Signed: Report Date: CLOPEM 5684957 Kevin Marson 01 Dec 2023

CONSTRUCTION EQUIPMENT



GRAPHS

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