LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R924 054969 - Hydraulic System

Sample No: LH0277741

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

5						
SAMPLEINFORMATION						
Sample Number	LH0277741	LH0242478				
Sample Date	17 Oct 2023	17 Nov 2022				
Machine Hours	2060	543				
Oil Hours	0	0				
Oil Changed	Not Changd	Not Changd				
Sample Status	SEVERE	NORMAL				
OIL CONDITION						
Visc @ 40°C cS	t 42.7	O 45.2				

Visc @ 40°C	cSt	42.7	○ 45.2				
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CONTAMINATION							
Water	%	NEG	NEG				
Particles >4um		O 9329	O 15946				

Water	%	NEG	NEG	
Particles >4µm		9329	O 15946	
Particles >6µm		2025	3437	
Particles >14µm		110	O 155	
ISO 4406:1999 (c)		20/18/14	21/19/14	
Silicon	ppm	5	O 5	
Sodium	ppm	4	O 5	
Potassium	mag	0 0	02	

WE/	AR META	LS		
Iron	ppm	6	O 5	
Copper	ppm	5 6	O 10	
Lead	ppm	9	3	
Tin	ppm	2	O <1	
Aluminum	ppm	○ <1	O <1	
Chromium	ppm	○ <1	O 0	
Molybdenum	ppm	0	0	
Nickel	ppm	○ <1	O 0	
Titanium	ppm	0	<1	
Silver	ppm	<1	<1	
Manganese	ppm	0	O <1	
Vanadium	ppm	0	0	

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ADE	DITIVES			
Calcium	ppm	1153	1171	
Magnesium	ppm	4	O 5	
Zinc	ppm	689	O 667	
Phosphorus	ppm	590	O 631	
Barium	ppm	() <1	0	
Boron	ppm	2	0 1	



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Diagnosis

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.Copper ppm levels are severe. Lead ppm levels are abnormal. Bearing and/or bushing wear is indicated. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CLOPEM
Unique No: 5672193
Signed: Kevin Marson
Report Date: 22 Nov 2023

CONSTRUCTION EQUIPMENT





GRAPHS

