CONSTRUCTION EQUIPMENT

[(364849)] LIEBHERR R934 053396-1487 - Hydraulic System

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

Sample No: LH0279272

Oil Type:

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J Samp	le Informa	tion			
Sample Number		LH0279272	LH0279080	LH0219938	LH0219931
Sample Date		12 Jun 2024	21 May 2024	01 Apr 2024	15 Mar 2024
Machine Hours		2063	2053	1995	1925
Oil Hours		0	0	0	0
Oil Changed		Not Changd	Not Changd	Not Changd	Changed
Sample Status		SEVERE	SEVERE	SEVERE	SEVERE
Oil Co	ndition				
Visc @ 40°C	cSt	41.0	● 41.7	0 41.1	0 40.9
Acid Number (AN)	mg KOH/g			0 1.00	0 1.38

Conta	mination				
Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9636	9249	2561	0 113685
Particles >6µm		2115	0 1492	574	0 25575
Particles >14µm		0 126	39	6 0	220
ISO 4406:1999 (c)		20/18/14	20/18/12	19/16/13	24/22/15
Silicon	ppm	06	0 4	5	6
Sodium	ppm	3	3	3	3
Potassium	ppm	○ <1	01	○ <1	○ <1

Wee Wee	ar Metal	S			
Iron	ppm	6	6	6	8
Copper	ppm	4 3	0 44	0 40	0 45
Lead	ppm	06	○ 5	5	6
Tin	ppm	0 2	0 2	2	<u> </u>
Aluminum	ppm	○ <1	○ <1	0 1	01
Chromium	ppm	○ <1	○ <1	○ <1	○ <1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<mark></mark> <1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	○ <1	○ <1	0	0
Vanadium	ppm	0	0	0	0

0	

Additives							
Calcium	ppm	1203	1155	1185	1296		
Magnesium	ppm	6	0 6	6	07		
Zinc	ppm	676	685	679	0 702		
Phosphorus	ppm	579	○ 559	569	○ 595		
Barium	ppm	○ <1	0	◯ <1	2		
Boron	ppm	0 2	○ 3	2	02		



HUBERT & FILS

474 ROUTE 105 BOIS-FRANC, QC CA J9E 3A9 Contact: Eric Brisebois ericbrisebois99@gmail.com T: F:

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: Unique No: Signed: Report Date: HUBBOI 5800531 Kevin Marson 20 Jun 2024 Submitted By: ?

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Graphs

