



## LIEBHERR R92254275 - Hydraulic System

Sample No: LH0286419

Oil Type:

Boron

PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

ā.		-			
	ample Infor	rmation			
Sample Number LH0286419			LH0281046	LH0260501	 
Sample Date 06 Jun 20		06 Jun 2024	18 Mar 2024	31 Jul 2023	 Liebherr Canada
Machine Hours 3000		3000	5489	1546	 140 - 21320 Gordon Way
Oil Hours 0		0	0	 Richmond, BC	
Oil Changed Not Chan		Not Changd	Not Changd	Not Changd	 CA V6W 1J8
Sample Statu	us	SEVERE	SEVERE	SEVERE	 Contact: Kevin Steer
					kevin.steer@liebherr.com
	il Condition				T:
			0 40 0	0.405	F: (604)270-3254
Visc @ 40°C	cSt	0 41.8	42.0	42.5	
<b>11</b>					Diagnosis
Ca	ontaminati	on			-
Water	%	NEG	NEG	NEG	 We recommend that you drain the c from the component if this has not
Particles >4L		2436	0 1536	○ 5722	 already been done. We recommend
Particles >6µ		Q 464	0 467	643	 an early resample to monitor this
Particles >14		28	0 31	0 33	 condition.Copper ppm levels are
ISO 4406:19	•	18/16/12	18/16/12	20/17/12	 severe. Lead ppm levels are
Silicon	ppm	0 5	0 6	0 6	 abnormal. Bearing and/or bushing
Sodium	ppm	03	0 4	03	 wear is indicated. The system
Potassium	ppm	○ 5 ○ <1	0 <1	○ <1	cleanliness is acceptable for your target ISO 4406 cleanliness code.
	<mark>/ear Metal</mark> s		0 15	0 12	 acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.
Iron	ppm	0 16	0 15	0 13	 abhormar and/or severe wear.
Copper	ppm	<b>5</b> 0	61	<b>5</b> 0	
Lead	ppm	06	6	0 6	
Tin	ppm	01	0	02	
Aluminum	ppm	0 <1	0	0 <1	
Chromium	ppm	○ <1	0 <1	○ <1	
Molybdenum Nickel		0	0	<1	
Titanium	ppm		0	0	
	ppm	0	0	0	
Silver	ppm	-			
Manganese	ppm		0	<1	
Vanadium	ppm dditives	U	U	U	
Calcium	ppm	928	0 1086	1126	
Magnesium	ppm	0 2	03	4	
Zinc	ppm	682	0 708	727	
Phosphorus	ppm	574	0 603	650	
Barium	ppm	○ <1	0	0	
D				4	

Depot:LIERICUnique No:5814264Signed:Kevin MarsonReport Date:19 Jul 2024Contact/Location: Kevin Steer - LIERIC

ppm

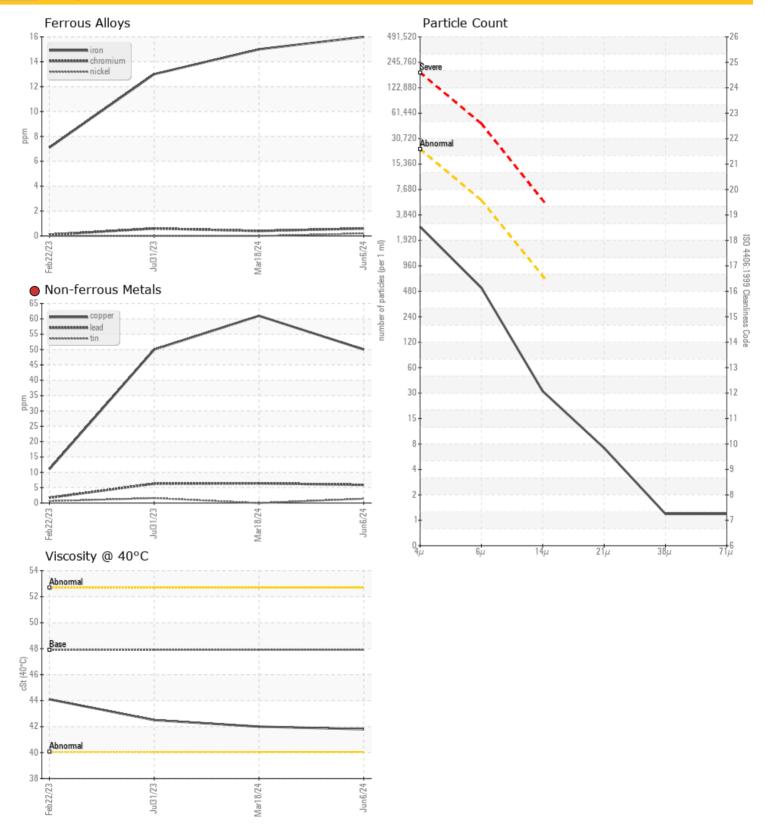
0 <1

0

## **LEBHERR** CONSTRUCTION EQUIPMENT



Graphs



Report Id: LIERIC [WCAMIS] 02648712 (Generated: 07/19/2024 14:53:07) Rev: 1