CONSTRUCTION EQUIPMENT

LIEBHERR R934 048907-1550 - Hydraulic System

Sample No: LH0281062

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

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SAMPLE INFORMATION							
Sample Number	LH0281062	LH0242064	LH0260549	LH0226687			
Sample Date	24 Jan 2024	11 Oct 2023	07 Jul 2023	16 Mar 2023			
Machine Hours	5470	4991	4540	4080			
Oil Hours	0	0	0	0			
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd			
Sample Status	ABNORMAL	SEVERE	ABNORMAL	ABNORMAL			



REGEHR CONTRACTING 6547 MT. LEHMAN ROAD ABBOTSFORD, BC CA V4X 2G5 Contact: Service Manager

Diagnosis

T: F:

OILCO	ONDITION				
Visc @ 40°C	cSt	42.1	42.3	O 41.2	41.0

CONTAMINATION						
Water	%	NEG	NEG	NEG	NEG	
Particles >4µm		6027	5 0390	O 5071	O 10675	
Particles >6µm		1673	9050	O 1536	O 1641	
Particles >14µm		○ 80	414	126	6 3	
ISO 4406:1999 (c)		20/18/13	23/20/16	20/18/14	21/18/13	
Silicon	ppm	5	6	6	O 6	
Sodium	ppm	2	4	4	○ 3	
Potassium	ppm	1	O <1	3	1	

CONTAMINATION							
ter	%	NEG	NEG	NEG	NEG		
ticles >4µm		6027	50390	5071	O 10675		
ticles >6µm		1673	O 9050	1536	O 1641		
ticles >14µm		80	O 414	126	○ 63		
4406:1999 (c)		20/18/13	23/20/16	20/18/14	21/18/13		
on	ppm	5	O 6	6	6		
lium	ppm	2	4	4	3		
assium	ppm	1	O <1	3	O 1		

WEAR METALS						
PQ		5	O 12	7	O 1	
Iron	ppm	0 87	123	87	O 62	
Copper	ppm	6	0 8	0 8	7	
Lead	ppm	0 <1	O 2	O 1	O 1	
Tin	ppm	0	O 0	0	O 0	
Aluminum	ppm	1	O <1	1	O 1	
Chromium	ppm	1	O 2	O 2	O 2	
Molybdenum	ppm	0	O 0	0	0	
Nickel	ppm	○ <1	O <1	O <1	0	
Titanium	ppm	0	0	0	<1	
Silver	ppm	0	<1	0	0	
Manganese	ppm	1	O 2	O 2	1	
Vanadium	ppm	0	0	0	0	

from the component if this has not
already been done. We recommend
an early resample to monitor this
condition.Iron ppm levels are
abnormal. The low ferrous density
(PQ) index indicates the wear metal
levels are due to corrosion. The
system cleanliness is acceptable for
your target ISO 4406 cleanliness
code. The system and fluid
cleanliness is acceptable. The oil is
no longer serviceable as a result of
the abnormal and/or severe wear.

We recommend that you drain the oil

ADDI					
ADDI	TIVES				
LE APPI					
Calcium	ppm	326	555	659	780
Magnesium	ppm	2	3	4	4
Zinc	ppm	545	O 665	O 640	653
Phosphorus	ppm	458	O 553	580	606
Barium	ppm	0	O <1	O <1	0
Boron	nnm		0 <1	0 < 1	<1

Depot: **REGABB** Unique No: 5720948 Signed: Bill Quesnel **Report Date:** 31 Jan 2024

LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS

