

LIEBHERR

CONSTRUCTION EQUIPMENT



116431-1217 - Hydraulic System

Sample No: LH0202727

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0202727	LH0239240	LH0221650	LH
Sample Date	09 May 2023	29 Aug 2022	06 Jun 2022	26 Jan 2022
Machine Hours	7133	6053	5561	4903
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

American Iron and Metal

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OIL CONDITION

Visc @ 40°C	cSt	42.1	42.2	42.2	41.5



CONTAMINATION

Particles >4µm		3802	1236	15198	3873
Particles >6µm		668	164	1730	464
Particles >14µm		17	7	23	23
ISO 4406:1999 (c)		19/17/11	17/15/10	21/18/12	19/16/12
Silicon	ppm	1	1	2	2
Sodium	ppm	2	2	2	3
Potassium	ppm	0	11	0	1



WEAR METALS

PQ		11	12	0	5
Iron	ppm	105	105	81	97
Copper	ppm	4	4	4	5
Lead	ppm	<1	1	<1	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	1	1	1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	2	2	2	2
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	562	655	747	1083
Magnesium	ppm	4	4	5	6
Zinc	ppm	750	728	721	709
Phosphorus	ppm	650	596	616	610
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	2	<1

Diagnosis

We recommend that you drain the oil 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.

Depot: BAKOTT
Unique No: 5578593
Signed: Kevin Marson
Report Date: 16 May 2023

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GRAPHS

