

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R944C 025727-793 - Hydraulic System

Sample No: LH

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH	LH	LH	LH0186363
Sample Date	06 Feb 2023	16 Aug 2022	15 Dec 2021	03 Jun 2021
Machine Hours	17503	17000	0	16014
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

Gerdau Manitoba Recycling
 314 Dawson Rd.
 Winnipeg, MB
 CA R2J 0S7
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	40.8	41.2	41.5	40.3
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T:
 F: (204)482-8241



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		18736	46269	52010	6267
Particles >6µm		2564	12332	12541	1477
Particles >14µm		170	323	555	150
ISO 4406:1999 (c)		21/19/15	23/21/16	23/21/16	20/18/14
Silicon	ppm	2	2	2	2
Sodium	ppm	<1	1	<1	1
Potassium	ppm	<1	<1	<1	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	8	7	6	7
Copper	ppm	2	3	2	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	5	4	3	3
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

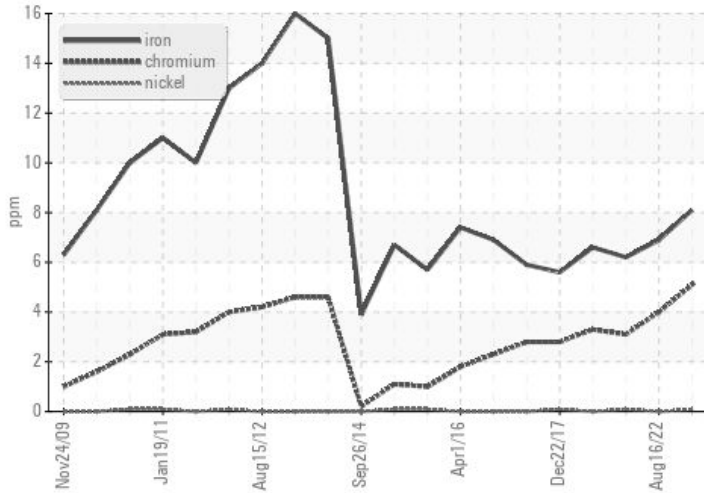
Calcium	ppm	125	123	125	140
Magnesium	ppm	6	2	2	2
Zinc	ppm	812	792	816	807
Phosphorus	ppm	689	672	656	608
Barium	ppm	0	0	0	<1
Boron	ppm	<1	<1	<1	<1

Depot: GER314WIN
 Unique No: 5538412
 Signed: Wes Davis
 Report Date: 26 Feb 2023

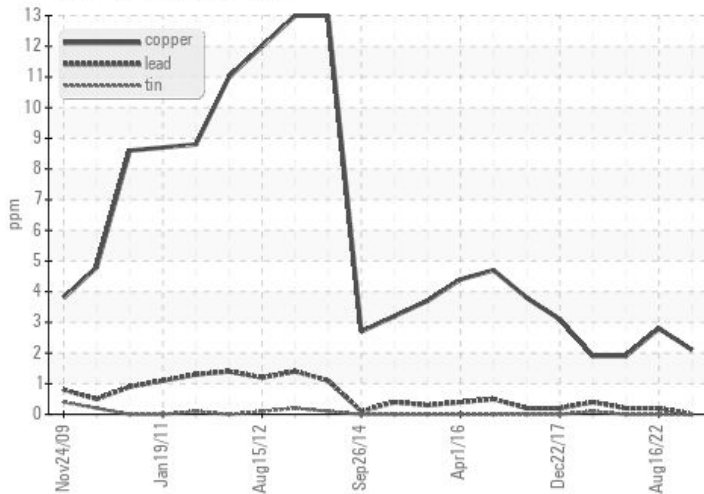


GRAPHS

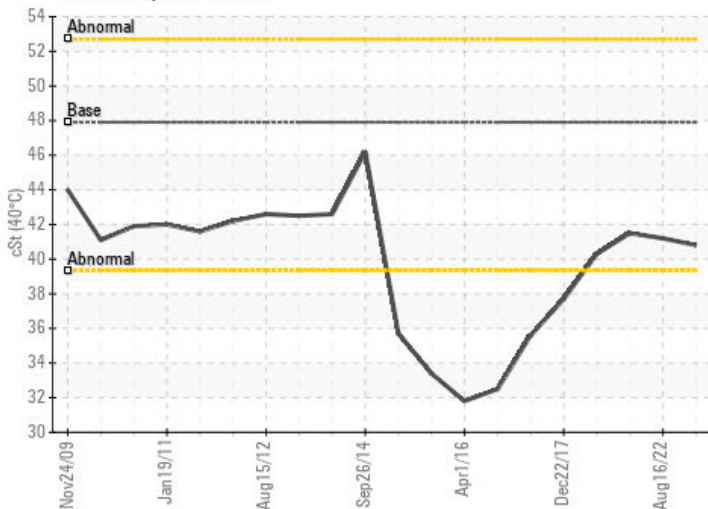
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

