

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60C106512-1528 - Hydraulic System

Sample No: LH0278577

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0278577	LH0265768	LH	LH0234440
Sample Date	05 Jan 2024	28 Sep 2023	23 Aug 2023	12 Jun 2023
Machine Hours	21976	20758	0	19187
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

Gerdau - Mandak Metal Processors Ltd.,
 1 Railway St., P.O. Box 334
 Selkirk, MB
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 Contact: Santiago Giraldo
 santiago.giraldo@gerdau.com
 T:
 F: (204)482-8241



OIL CONDITION

Visc @ 40°C	cSt	45.1	43.7	41.2	43.3
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		44052	3430	4424	2464
Particles >6µm		14766	940	1430	701
Particles >14µm		1338	34	127	43
ISO 4406:1999 (c)		23/21/18	19/17/12	19/18/14	18/17/13
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	0	<1	<1	<1
Potassium	ppm	<1	0	<1	<1



WEAR METALS

Iron	ppm	1	3	4	4
Copper	ppm	<1	1	1	1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	102	85	76	92
Magnesium	ppm	6	24	35	18
Zinc	ppm	829	730	676	762
Phosphorus	ppm	655	558	558	629
Barium	ppm	0	<1	<1	0
Boron	ppm	0	<1	<1	<1

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: MANSEL
 Unique No: 5720225
 Signed: Wes Davis
 Report Date: 26 Jan 2024

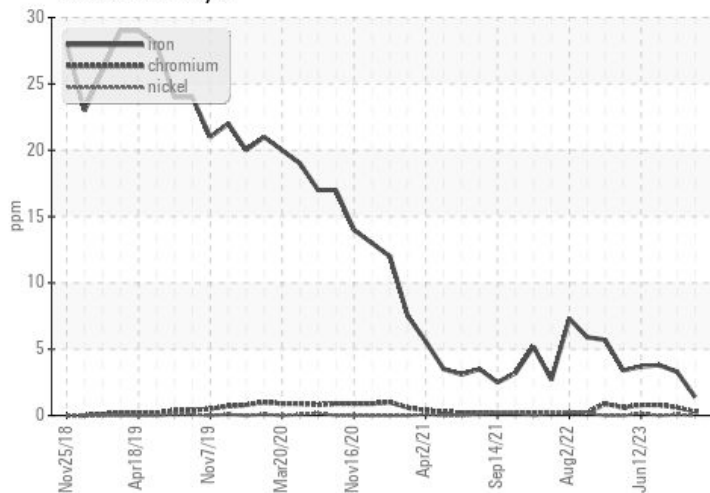
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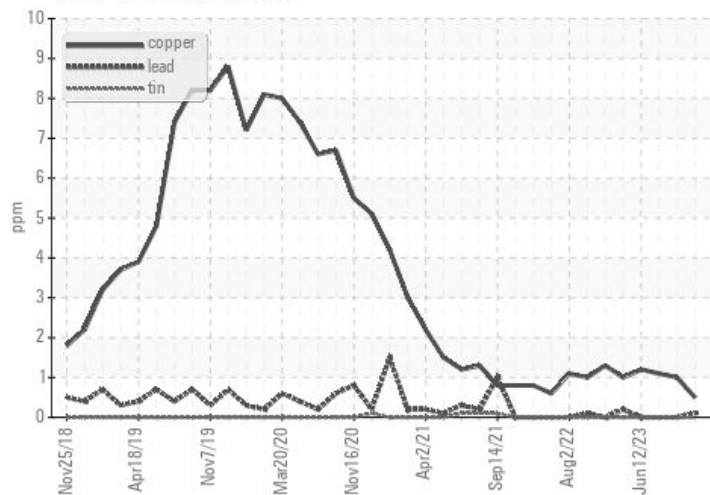


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

