

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 068244 - Hydraulic System

Sample No: LH0278518

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0278518	LH	LH0234433	LH0250037
Sample Date	22 Dec 2023	15 Sep 2023	09 Jun 2023	28 May 2023
Machine Hours	7142	0	4612	4345
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

Gerdau - Mandak Metal Processors Ltd.,
 1 Railway St., P.O. Box 334
 Selkirk, MB
 CA R1A 2B3
 Contact: Santiago Giraldo
 santiago.giraldo@gerdau.com
 T:
 F: (204)482-8241



OIL CONDITION

Visc @ 40°C	cSt	43.5	44.4	42.5	42.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		94488	7891	2611	44006
Particles >6µm		26430	902	534	14105
Particles >14µm		1766	28	50	973
ISO 4406:1999 (c)		24/22/18	20/17/12	19/16/13	23/21/17
Silicon	ppm	2	1	3	3
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	0	<1	0

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.



WEAR METALS

Iron	ppm	7	4	10	9
Copper	ppm	1	<1	2	2
Lead	ppm	2	2	4	4
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	<1	2	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

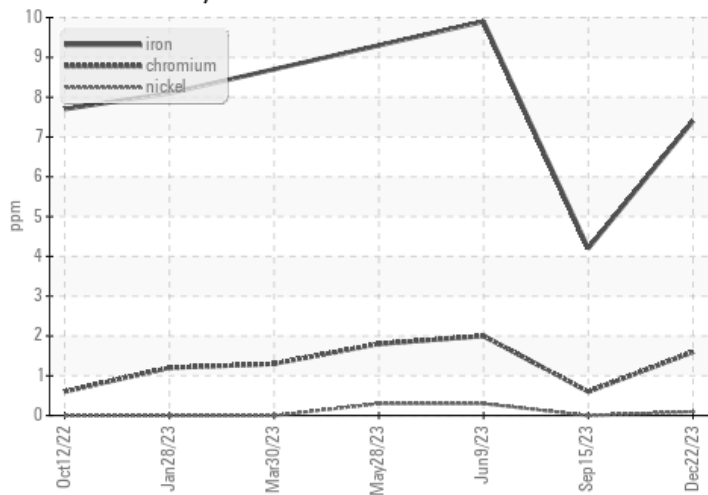
Calcium	ppm	189	211	662	684
Magnesium	ppm	20	24	8	8
Zinc	ppm	688	735	765	744
Phosphorus	ppm	549	578	666	658
Barium	ppm	<1	<1	0	0
Boron	ppm	0	<1	<1	0

Depot: MANSEL
 Unique No: 5720222
 Signed: Wes Davis
 Report Date: 26 Jan 2024

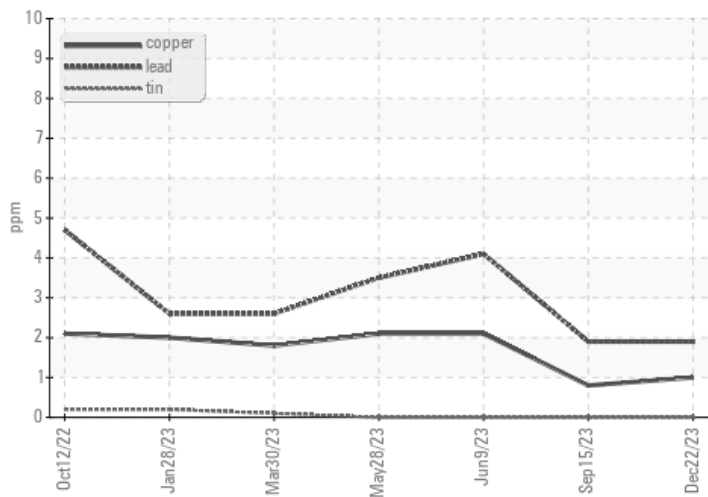


GRAPHS

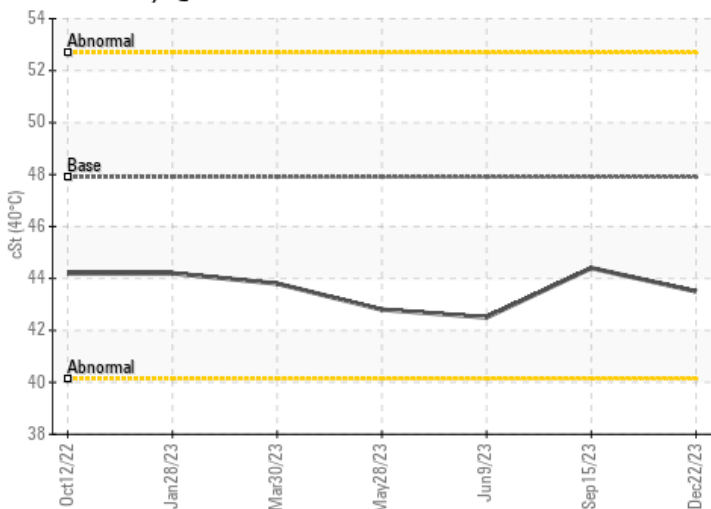
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

