

LIEBHERR

CONSTRUCTION EQUIPMENT



586-2 - Hydraulic System

Sample No: LH0260193

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0260193	LH	---	---
Sample Date	03 Aug 2023	07 Jul 2015	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	N/A	---	---
Sample Status	SEVERE	NORMAL	---	---

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	45.7	31.9	---	---
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CONTAMINATION

Particles >4µm		42453	3210	---	---
Particles >6µm		10641	548	---	---
Particles >14µm		309	32	---	---
ISO 4406:1999 (c)		23/21/15	19/16/12	---	---
Silicon	ppm	<1	<1	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	<1	0	---	---



WEAR METALS

Iron	ppm	2	1	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	<1	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	97	151	---	---
Magnesium	ppm	11	0	---	---
Zinc	ppm	795	341	---	---
Phosphorus	ppm	658	263	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	<1	---	---

Diagnosis

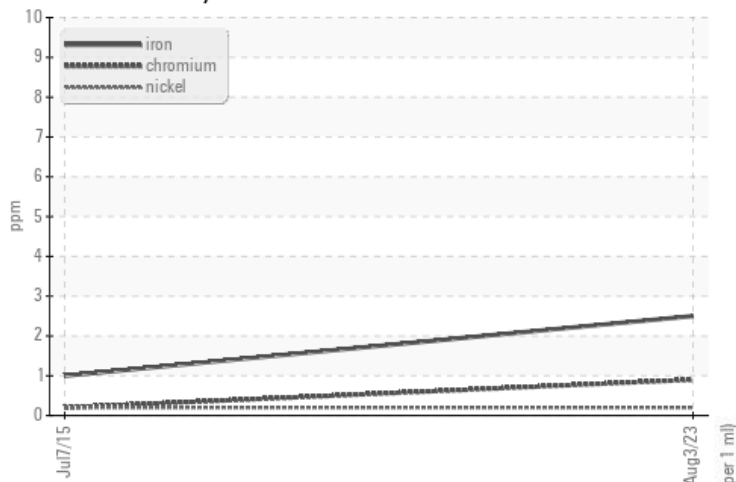
Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Please specify the component make and model with your next sample. All component wear rates are normal. There is a high amount of silt (particulates < 14 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: 5631862
Signed: Wes Davis
Report Date: 29 Aug 2023

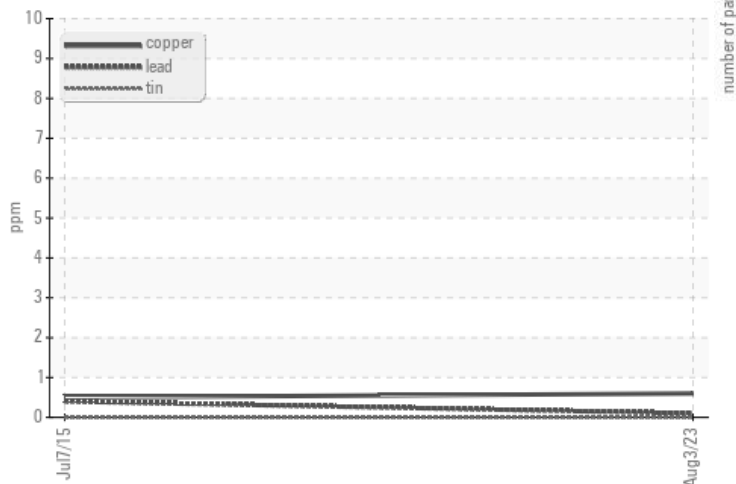


GRAPHS

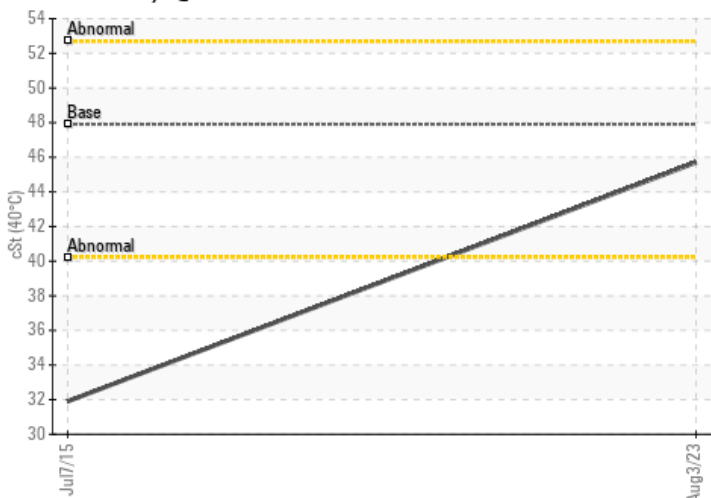
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

