

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 052852-1332 - Hydraulic System

Sample No: LH0269953

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0269953	LH0256334	LH0242199	LH0242257
Sample Date	01 Oct 2023	16 May 2023	01 Mar 2023	30 Nov 2022
Machine Hours	20000	17943	17030	16000
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Not Changd	N/A
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

Resolute Forest Products

1, chemin de la Scierie, Case postale 2250
Baie-Comeau, QC
CA G5C 2S8
Contact: Paul Breton
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T:
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OIL CONDITION

Visc @ 40°C	cSt	44.2	44.7	45.3	45.9
		●	●	●	●



CONTAMINATION

Particles >4µm		● 4088	● 30664	● 17184	● 4432
Particles >6µm		● 183	● 9255	● 874	● 1018
Particles >14µm		● 12	● 416	● 22	● 88
ISO 4406:1999 (c)		● 19/15/11	● 22/20/16	● 21/17/12	● 19/17/14
Silicon	ppm	● 4	● 3	● 1	● 1
Sodium	ppm	● <1	● <1	● <1	● <1
Potassium	ppm	● 0	● 0	● <1	● <1



WEAR METALS

Iron	ppm	● 11	● 8	● 7	● 3
Copper	ppm	● 2	● 2	● 1	● <1
Lead	ppm	● 2	● 2	● 1	● 1
Tin	ppm	● 0	● 0	● <1	● 0
Aluminum	ppm	● 2	● 1	● <1	● <1
Chromium	ppm	● 12	● 10	● 8	● 5
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● <1	● <1	● 0	● 0
Titanium	ppm	● 0	● <1	● <1	● 0
Silver	ppm	● <1	● 0	● 0	● 0
Manganese	ppm	● 0	● 0	● 0	● 0
Vanadium	ppm	● 0	● 0	● 0	● 0



ADDITIVES

Calcium	ppm	● 127	● 142	● 140	● 136
Magnesium	ppm	● <1	● <1	● <1	● <1
Zinc	ppm	● 815	● 863	● 819	● 808
Phosphorus	ppm	● 630	● 756	● 705	● 678
Barium	ppm	● <1	● 0	● 0	● 0
Boron	ppm	● <1	● <1	● <1	● <1

Diagnosis

Nous avons pris note que la vidange d'huile a été effectuée au moment de l'échantillonnage. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Usure de segment. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable. l'huile n'est plus en état de service en raison d'une usure anormale et/ou sévère.

Depot: RESBAI
Unique No: 5672122
Signed: Bill Quesnel
Report Date: 10 Nov 2023

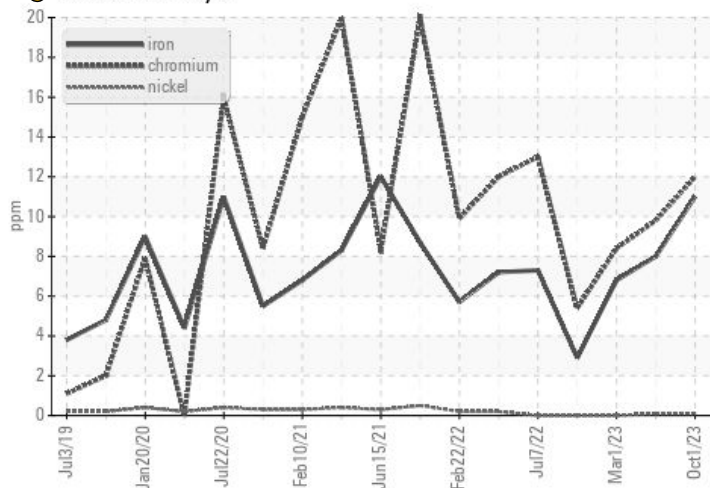
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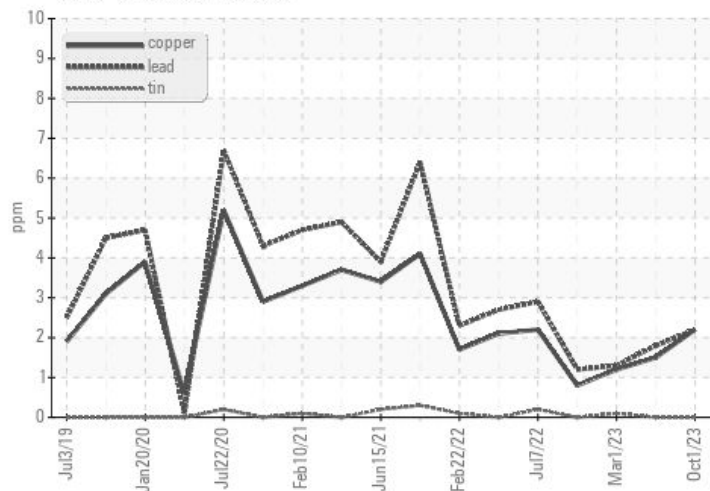


GRAPHS

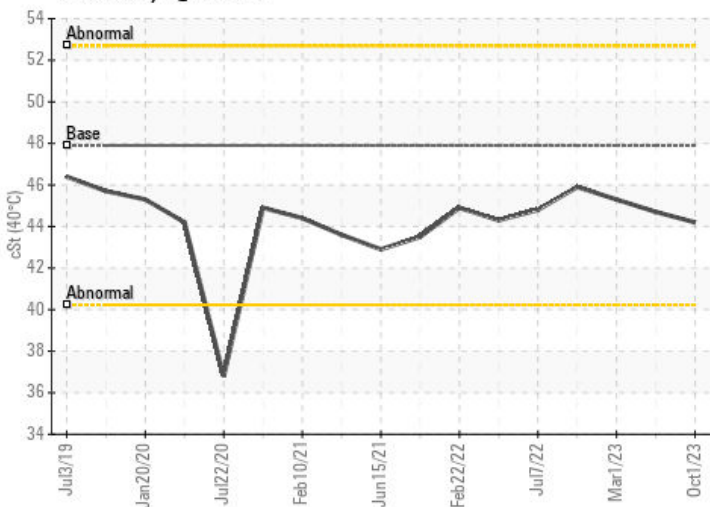
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

