

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R974 027581-1084 - Hydraulic System

Sample No: LH

Oil Type: CASTROL HVI 32



SAMPLE INFORMATION

Sample Number	LH	LH0225562	LH0203742	LH0155081
Sample Date	23 Feb 2024	06 Jun 2022	18 Aug 2021	02 Apr 2020
Machine Hours	0	32316	30498	28482
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Changed
Sample Status	ABNORMAL	ATTENTION	NORMAL	ABNORMAL

QIT - Rio Tinto Fer et Titane Inc.

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OIL CONDITION

Visc @ 40°C	cSt	39.0	40.2	39.0	40.9



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		38145	25511	7202	75415
Particles >6µm		10819	2479	1075	3698
Particles >14µm		865	86	72	18
ISO 4406:1999 (c)		22/21/17	22/18/14	20/17/13	23/19/11
Silicon	ppm	7	5	3	3
Sodium	ppm	2	1	1	1
Potassium	ppm	<1	1	<1	1

Diagnosis

Nous recommandons le remplacement des filtres de ce composant. Nous vous recommandons d'échantillonner de nouveau dès que possible afin de contrôler la situation. Les taux d'usure de tous les composants sont normaux. Il y a une quantité modérée de particules (de 4 à 14 microns) dans l'huile. L'huile peut encore servir si la contamination peut être réduite à un niveau acceptable.



WEAR METALS

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



ADDITIVES

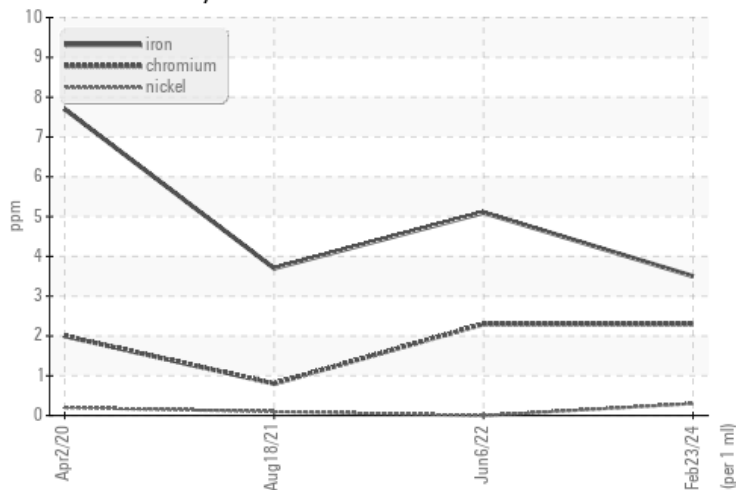
Calcium	ppm	3561	3089	3098	3250
Magnesium	ppm	17	26	16	14
Zinc	ppm	1075	1180	1272	1253
Phosphorus	ppm	939	1058	1133	1113
Barium	ppm	0	<1	0	<1
Boron	ppm	2	3	3	5

Depot: QITGARAGE
Unique No: 5736080
Signed: Wes Davis
Report Date: 01 Mar 2024

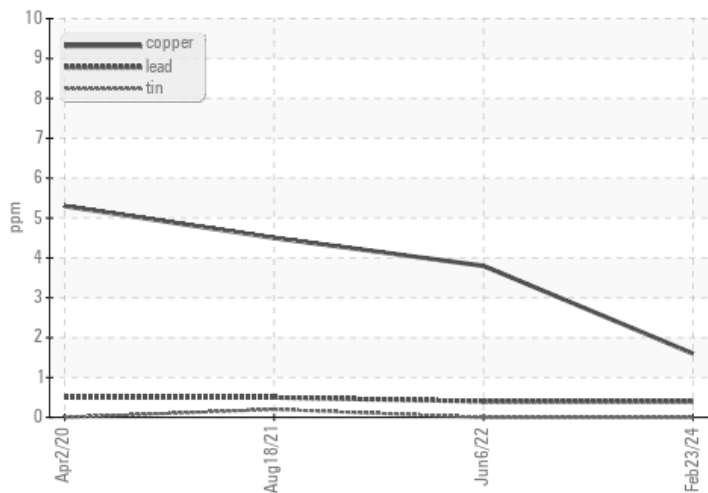


GRAPHS

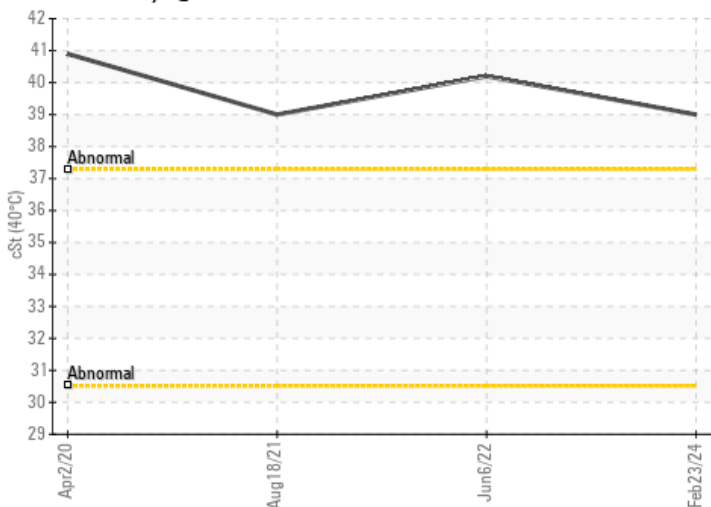
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

