

LIEBHERR

CONSTRUCTION EQUIPMENT



[(355226)] LIEBHERR R938 053191-1650 - Hydraulic System

Sample No: LH0276221

Oil Type: PETRO CANADA 10W30

THOMAS CAVANAGH CONSTRUCTION LTD
RR # 2, 9094 CAVANAGH ROAD
ASHTON, ON
CA K0A 1B0
Contact: Keith

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Diagnostic

We advise that you check for visible metal particles in the oil. We recommend an early resample to monitor this condition. Light concentration of visible metal present. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



Information sur l'échantillon

Numéro d'échant.		LH0276221	LH0284893	LH0279024	LH0274643
Date d'échant.		17 May 2024	13 Feb 2024	01 Nov 2023	01 Nov 2023
Heures de la Machine		4468	3960	3610	3610
Heures de l'huile		0	0	0	0
Huile changée		Not Changd	Changed	Not Changd	Not Changd
Statut de l'echant.		ABNORMAL	NORMAL	NORMAL	ATTENTION



État d'huile

Visc 40°C	cSt	● 55.2	● 57.6	49.9	● 48.8
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Contamination

Eau	%	NEG	NEG	NEG	NEG
Particules >4μ		● 8641	● 495	● 2545	● 8642
Particules >6μ		● 2146	● 89	● 639	● 1835
Particules >14μ		● 156	● 7	● 28	● 114
ISO 4406:1999 (c)		20/18/14	16/14/10	19/16/12	20/18/14
Silicium	ppm	● 5	● 7	● 7	● 6
Sodium	ppm	● 4	● 4	● 5	● 4
Potassium	ppm	● 1	● 2	● <1	● <1



Métaux d'usure

Fer	ppm	● 5	● 8	● 7	● 9
Cuivre	ppm	● 4	● 5	● 11	● 6
Plomb	ppm	● 0	● <1	● 1	● <1
Étain	ppm	● 0	● 0	● 0	● 0
Aluminium	ppm	● <1	● 2	● 1	● 1
Chrome	ppm	● 0	● <1	● <1	● 0
Molybdène	ppm	● 33	● 14	● 13	● 18
Nickel	ppm	● 0	● 0	● 0	● <1
Titane	ppm	17	29	27	20
Argent	ppm	0	0	<1	<1
Manganèse	ppm	● 0	● 0	● 0	● 0
Vanadium	ppm	0	0	0	0



Additifs

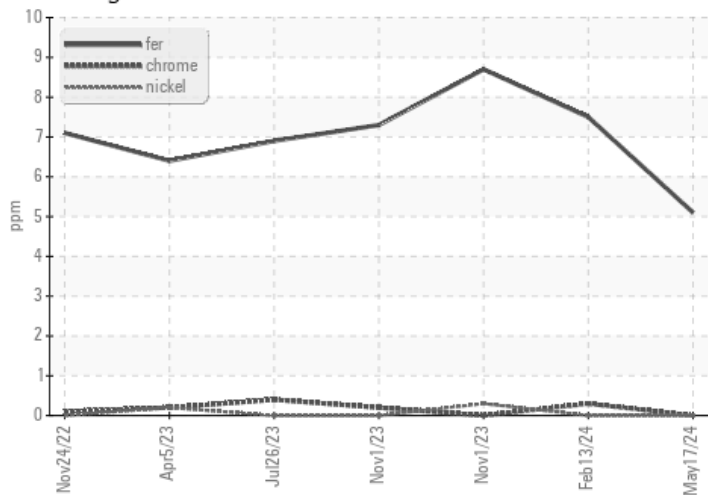
Calcium	ppm	● 1236	● 1391	● 1425	● 1299
Magnésium	ppm	● 619	● 384	● 360	● 321
Zinc	ppm	● 1065	● 975	● 963	● 919
Phosphore	ppm	● 892	● 877	● 842	● 809
Baryum	ppm	● 0	● 0	● <1	● <1
Bore	ppm	● 33	● 55	● 53	● 58

Depot: CAVASH
 Unique No: 5786366
 Signed: Kevin Marson
 Report Date: 27 May 2024

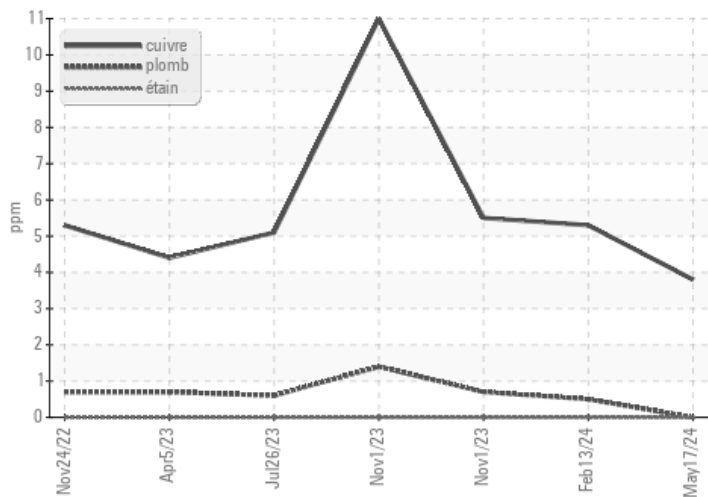


Graphs

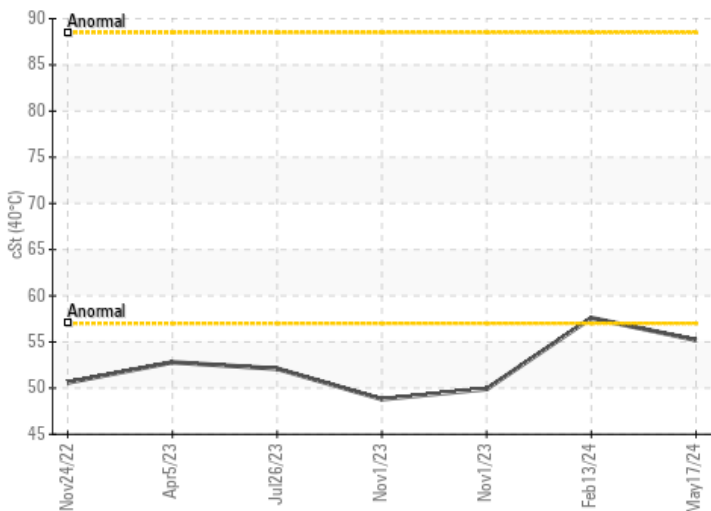
Alliages ferreux



Métaux non-ferreux



Viscosité 40°C



Particle Filter (Magn: 100 x)

