LIEBHERR
CONSTRUCTION EQUIPMENT

[(366409)] LIEBHERR R945 053994-1866 - Hydraulic System

Sample No: LH0289721

Oil Type: PETRO CANADA 10W30

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

T: (613)257-4995
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Information sur l'échantillon

Numéro d'échant.		**LH0289721**	LH0285027	LH0237712	LH0202862
Date d'échant.		**02 May 2024**	08 Feb 2024	11 Aug 2023	25 May 2023
Heures de la Machine		**4540**	4053	3069	2611
Heures de l'huile		**0**	0	0	0
Huile changée		**Not Changd**	Not Changd	Not Changd	Not Changd
Statut de l'echant.		**NORMAL**	NORMAL	NORMAL	NORMAL

État d'huile

Visc 40°C	cSt	**53.8**	49.0	46.9	49.0
Indice d'acidité	mg KOH/g	**---**	---	0.92	---

Contamination

Eau	%	**NEG**	NEG	NEG	NEG
Particules >4µ		**1971**	7205	8090	1391
Particules >6µ		**436**	2110	1662	282
Particules >14µ		**27**	138	79	17
ISO 4406:1999 (c)		**18/16/12**	20/18/14	20/18/13	18/15/11
Silicium	ppm	**4**	6	6	6
Sodium	ppm	**3**	4	4	3
Potassium	ppm	**<1**	2	2	1

Métaux d'usure

Fer	ppm	**6**	10	8	7
Cuivre	ppm	**3**	5	5	5
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	**34**	21	19	20
Nickel	ppm	**0**	<1	0	0
Titane	ppm	**11**	17	22	18
Argent	ppm	**0**	0	0	0
Manganèse	ppm	**0**	0	<1	<1
Vanadium	ppm	**0**	0	<1	<1

Additifs

Calcium	ppm	**1136**	1252	1333	1400
Magnésium	ppm	**578**	363	338	330
Zinc	ppm	**1064**	925	935	944
Phosphore	ppm	**922**	848	880	901
Baryum	ppm	**0**	0	0	0
Bore	ppm	**34**	51	61	55

Diagnostic

Resample at the next service interval to monitor.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the oil is acceptable for the time in service.

Depot: CAVASH
Unique No: 5774699
Signed: Kevin Marson
Report Date: 07 May 2024

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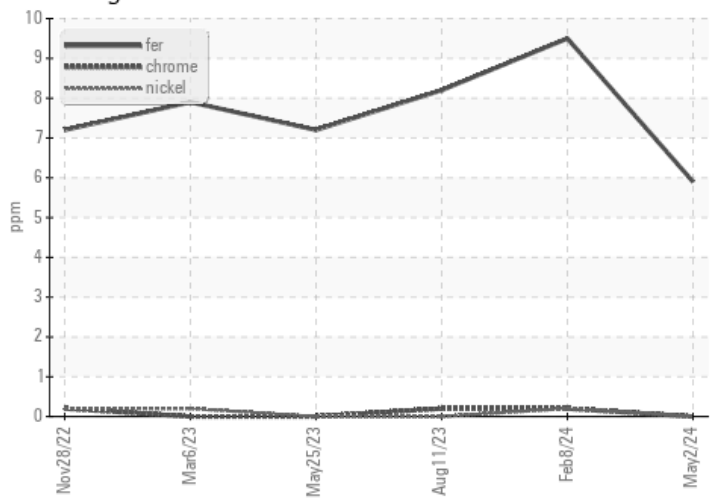
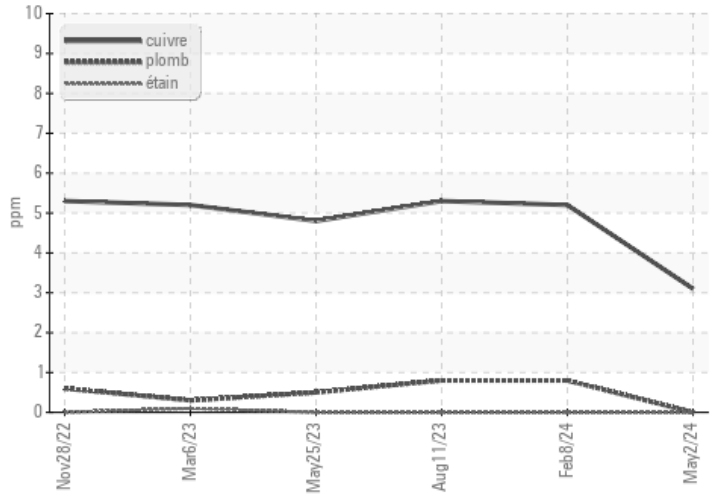
Graphs

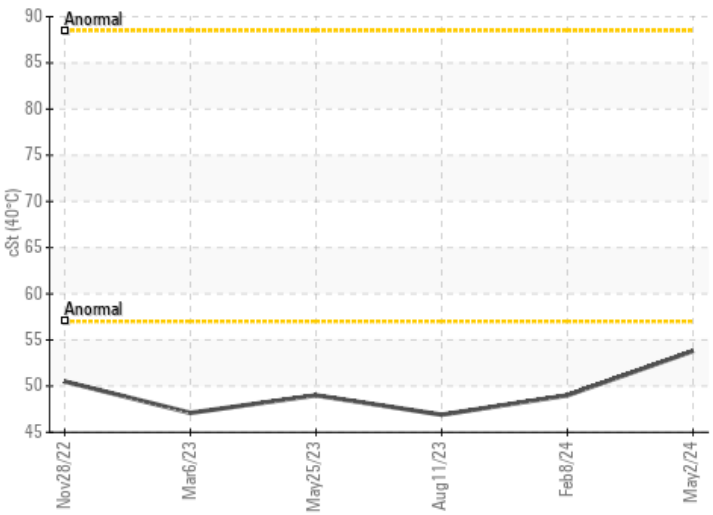
Alliages ferreux



Métaux non-ferreux



Viscosité 40°C



Comptage de particules