



CONSTRUCTION EQUIPMENT

VOLVO L90E 66398 - HYDRAULIC SYSTEM



Sample No: VCP335048
Oil Type: SHELL TELLUS S2 VX 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP335048	VCP272813	VCP212561	VCP209406
Sample Date	18 Jan 2024	09 Dec 2021	15 Sep 2020	31 Jul 2019
Machine Hours	22392	20741	19635	13317
Oil Hours	2750	1100	4000	3000
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

EXCAVATION MCBM INC
 1383 ROUTE 122
 ST-EDMOND- DE-GRANTHAM, QC
 CA J0C 1K0
 Contact: Denis Foegues
 denis.forgues@mcbm.ca
 T: (819)395-2015
 F:

OIL CONDITION

Visc @ 40°C	cSt	43.9	44.3	43.8	44.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5070	13608	109000	17077
Particles >6µm		188	1889	▲ 14820	478
Particles >14µm		4	▲ 166	▲ 233	20
ISO 4406:1999 (c)		20/15/9	21/18/15	24/21/15	21/16/11
Silicon	ppm	1	<1	4	4
Sodium	ppm	<1	<1	0	0
Potassium	ppm	<1	<1	<1	<1

Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable. L'état de l'huile est acceptable pour la durée de service.

WEAR METALS

Iron	ppm	4	2	6	5
Copper	ppm	2	1	2	1
Lead	ppm	<1	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	2	2
Chromium	ppm	3	<1	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	74	79	400	433
Magnesium	ppm	13	<1	4	5
Zinc	ppm	338	346	430	441
Phosphorus	ppm	292	294	352	353
Barium	ppm	0	0	<1	0
Boron	ppm	<1	1	3	3

Depot: EXC138STE
Unique No: 5747162
Signed: Wes Davis
Report Date: 15 Mar 2024

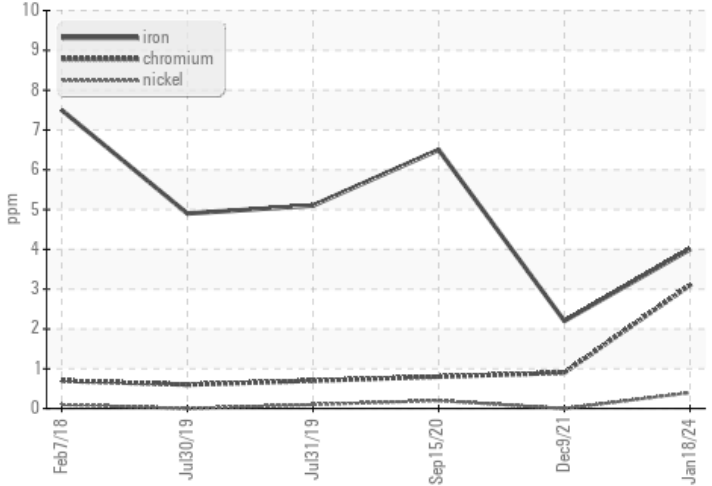


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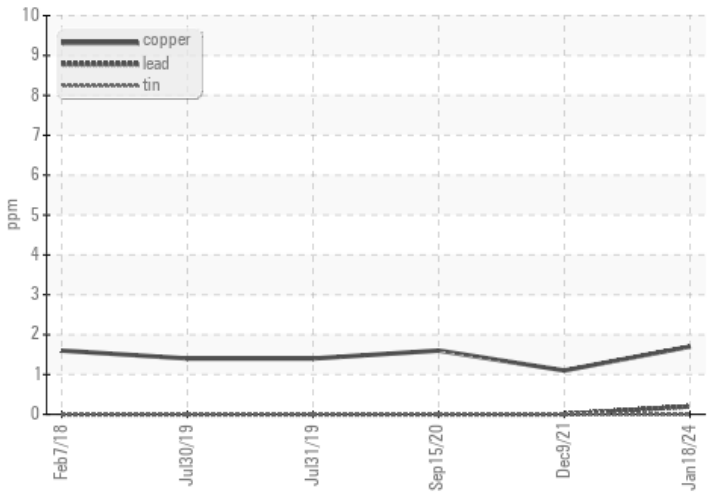


GRAPHS

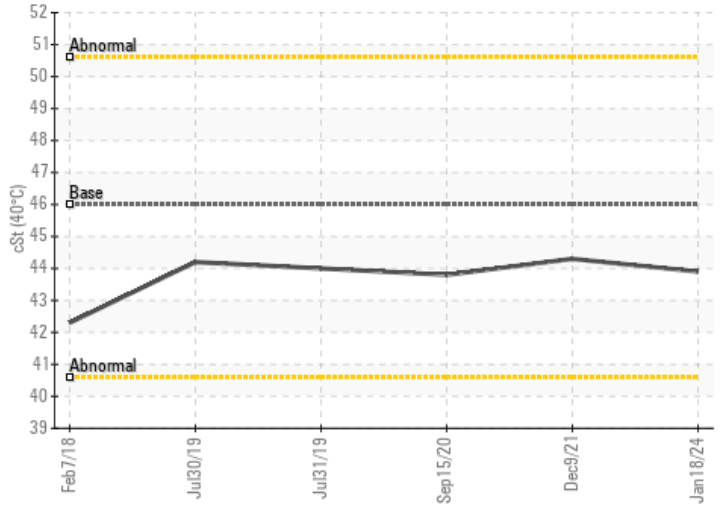
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

