



CONSTRUCTION EQUIPMENT

SPM595392 WM VOLVO L90H 624824 - HYDRAULIC SYSTEM



Sample No: VCP415238
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM595392 WM



SAMPLE INFORMATION

Sample Number	VCP415238	VCP399653	VCP404278	VCP404945
Sample Date	12 Sep 2023	08 Aug 2023	18 May 2023	08 May 2023
Machine Hours	9830	9594	9211	9062
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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 5000 INDUSTRIAL HWY
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 F:



OIL CONDITION

Visc @ 40°C	cSt	43.4	43.3	42.1	42.1
Acid Number (AN)	mg KOH/g	0.40	0.41	0.44	0.60



CONTAMINATION

Particles >4µm	3042	▲ 5380	3454	1527	
Particles >6µm	710	▲ 1439	765	234	
Particles >14µm	26	67	40	21	
ISO 4406:1999 (c)	19/17/12	20/18/13	19/17/12	18/15/12	
Silicon	ppm	3	6	11	8
Sodium	ppm	<1	2	4	<1
Potassium	ppm	1	0	2	0

Diagnosis

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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	52	61	71	72
Magnesium	ppm	1	3	7	5
Zinc	ppm	396	438	451	455
Phosphorus	ppm	318	359	377	356
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO8885
Unique No: 10658225
Signed: Wes Davis
Report Date: 22 Sep 2023

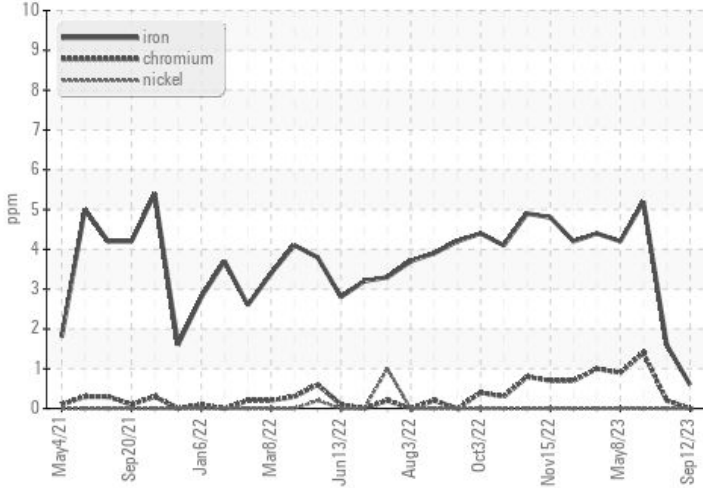


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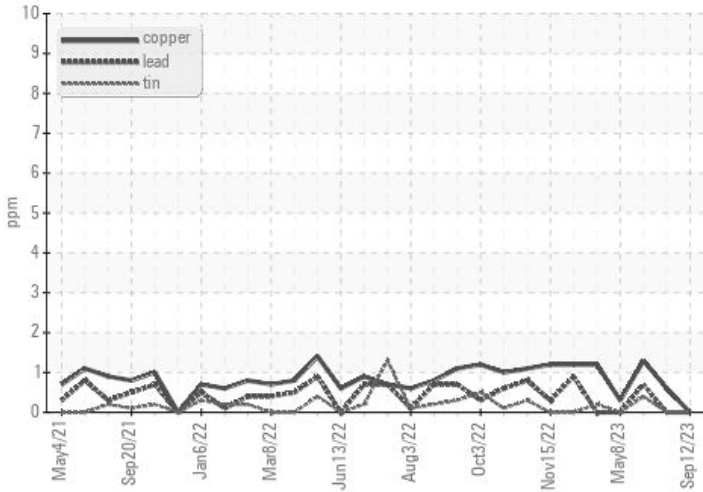


GRAPHS

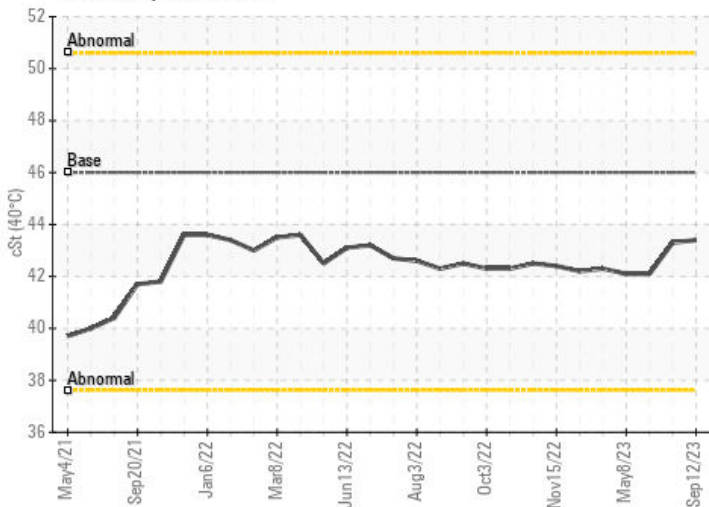
Ferrous Alloys



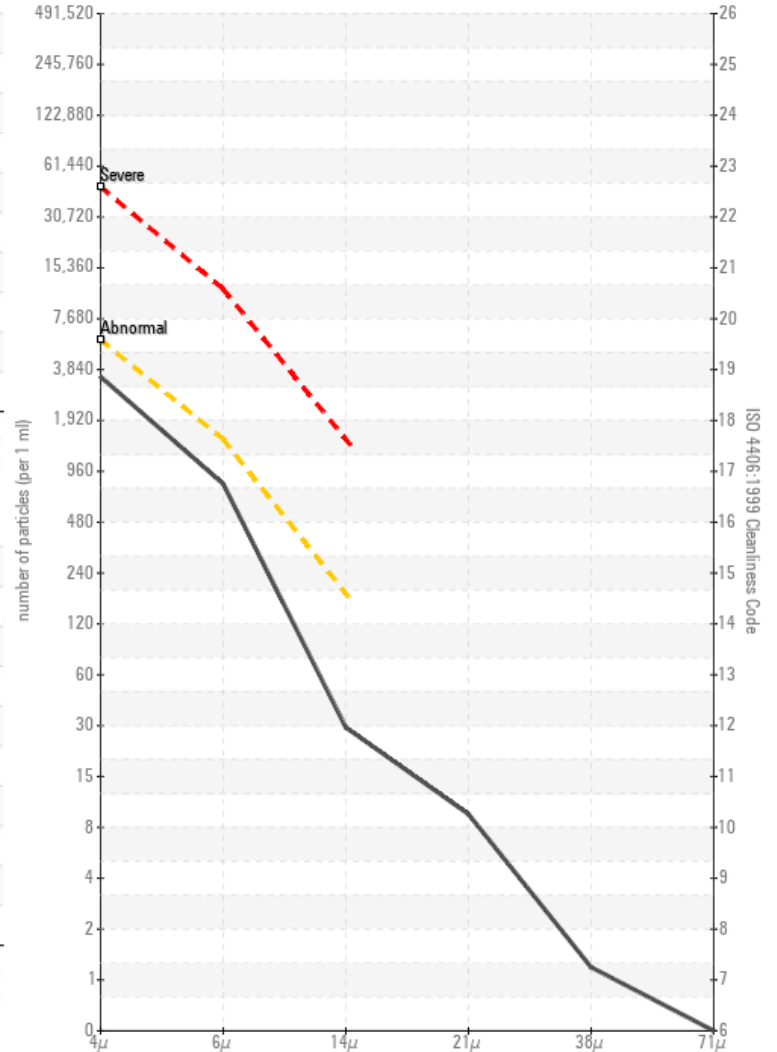
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

