



CONSTRUCTION EQUIPMENT

SPM619898 VOLVO L90H 625 106 - HYDRAULIC SYSTEM



Sample No: VCP414540
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM619898



SAMPLE INFORMATION

Sample Number	VCP414540	VCP354498	VCP410967	VCP379237
Sample Date	12 Oct 2023	22 Aug 2023	18 Apr 2023	11 Jan 2023
Machine Hours	5121	4106	4020	3460
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	SEVERE	ATTENTION	NORMAL	ATTENTION

UNITED SCRAP
 1545 S CICERO AVE
 CICERO, IL
 US 60804
 Contact: RON LUCHTENBURG
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 T:
 F:

OIL CONDITION

Visc @ 40°C	cSt	42.4	42.6	42.6	42.6
Acid Number (AN)	mg KOH/g	0.32	0.37	0.32	0.38

CONTAMINATION

Particles >4µm	98150	8064	2840	7477	
Particles >6µm	35107	1488	421	869	
Particles >14µm	2118	53	24	25	
ISO 4406:1999 (c)	24/22/18	20/18/13	19/16/12	20/17/12	
Silicon	ppm	1	2	1	1
Sodium	ppm	0	0	<1	<1
Potassium	ppm	0	<1	0	0

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

WEAR METALS

Iron	ppm	4	9	4	4
Copper	ppm	1	2	<1	1
Lead	ppm	0	2	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	2	2	<1	1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	44	57	40	41
Magnesium	ppm	6	3	0	<1
Zinc	ppm	561	672	517	482
Phosphorus	ppm	427	526	423	396
Barium	ppm	0	2	0	0
Boron	ppm	0	0	0	0

Depot: UNICICIL
Unique No: 10712937
Signed: Wes Davis
Report Date: 27 Oct 2023

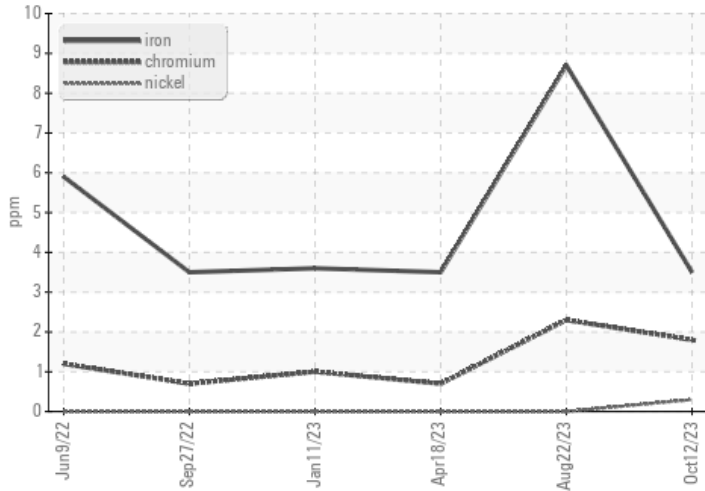


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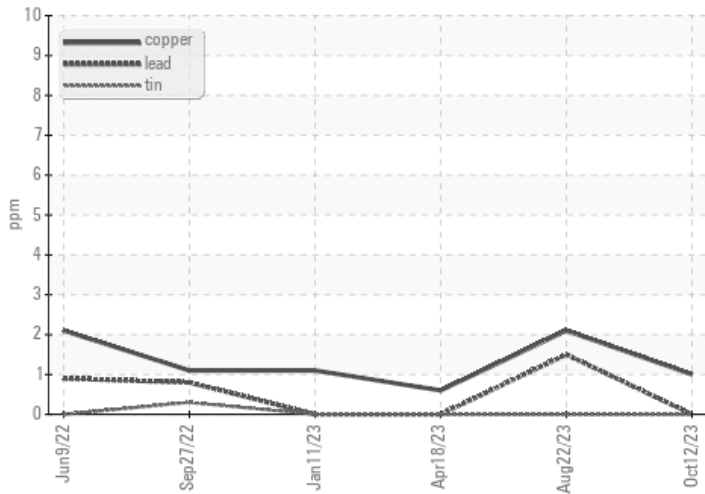


VOLVO GRAPHS

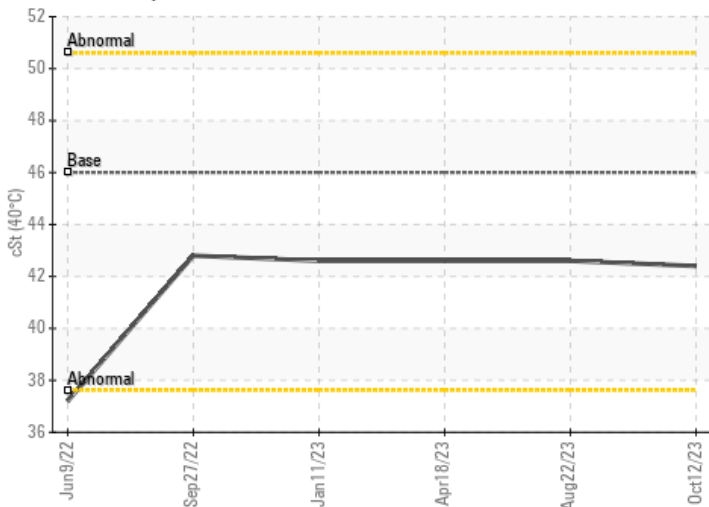
Ferrous Alloys



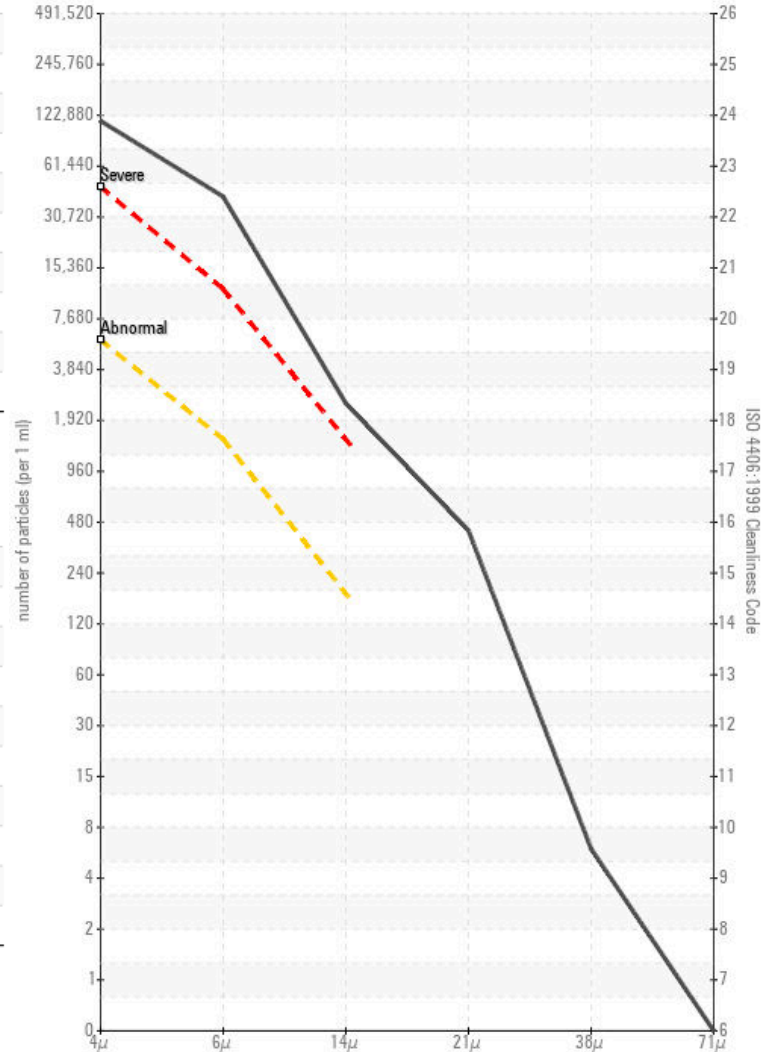
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

