



CONSTRUCTION EQUIPMENT

SPM595106 VOLVO L90H 624199 - HYDRAULIC SYSTEM



Sample No: VCP354485
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM595106



SAMPLE INFORMATION

Sample Number	VCP354485	VCP422183	VCP396406	VCP365861
Sample Date	22 Aug 2023	06 Jun 2023	28 Feb 2023	01 Nov 2022
Machine Hours	9032	9032	8356	7635
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ABNORMAL	NORMAL	ABNORMAL

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	43.3	43.5	43.1	43.5
Acid Number (AN)	mg KOH/g	0.42	0.50	0.44	0.47



CONTAMINATION

Particles >4µm		1463	12235	1390	11192
Particles >6µm		252	2111	233	1821
Particles >14µm		14	65	18	42
ISO 4406:1999 (c)		18/15/11	21/18/13	18/15/11	21/18/13
Silicon	ppm	1	2	2	1
Sodium	ppm	0	0	1	3
Potassium	ppm	<1	<1	0	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	5	5	4	3
Copper	ppm	3	3	2	2
Lead	ppm	1	1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	5	4	4	3
Molybdenum	ppm	<1	3	<1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	123	130	121	130
Magnesium	ppm	53	53	53	56
Zinc	ppm	916	955	883	917
Phosphorus	ppm	713	729	669	729
Barium	ppm	2	1	0	0
Boron	ppm	0	0	0	0

Depot: UNICICIL
Unique No: 10632702
Signed: Don Baldrige
Report Date: 07 Sep 2023

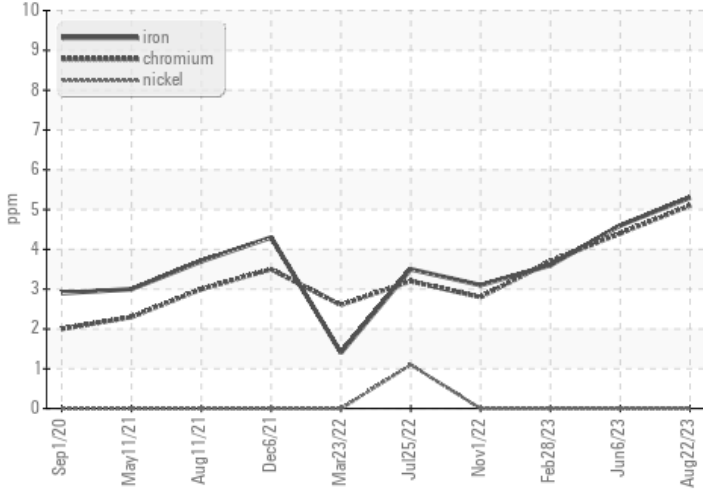


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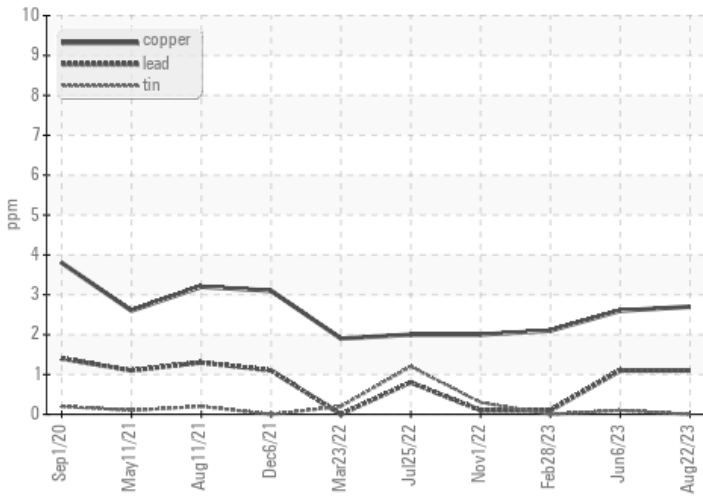


GRAPHS

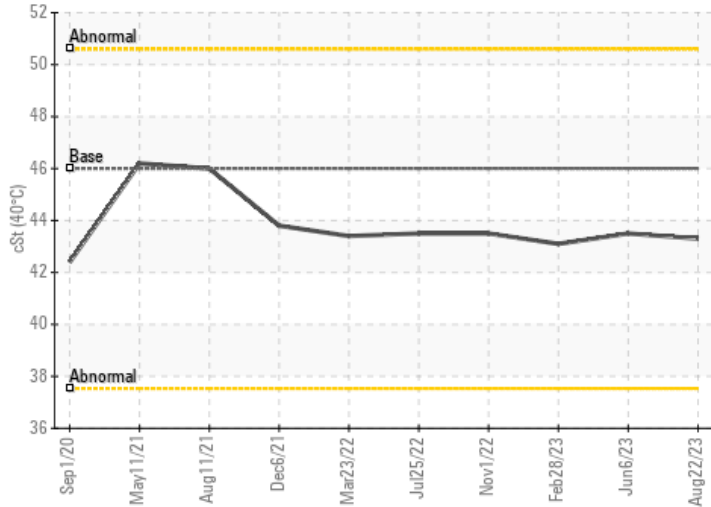
Ferrous Alloys



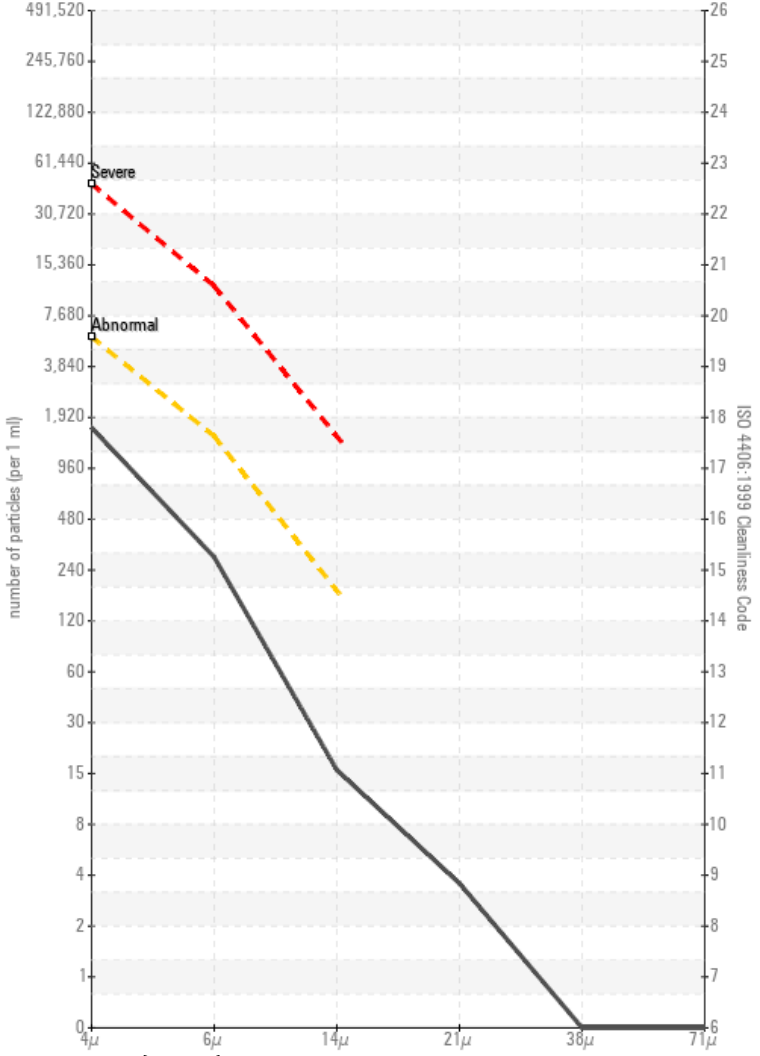
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

