



CONSTRUCTION EQUIPMENT

VOLVO L90H 624404 - HYDRAULIC SYSTEM



Sample No: VCP424099
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP424099	VCP356101	VCP347206	VCP310199
Sample Date	15 Jun 2023	19 Dec 2022	17 Dec 2021	20 Jul 2021
Machine Hours	0	16595	12261	10674
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	N/A
Sample Status	NORMAL	ABNORMAL	ATTENTION	ABNORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 40°C	cSt	43.9	43.6	42.7	42.4
Acid Number (AN)	mg KOH/g	0.27	0.28	0.331	0.289



CONTAMINATION

Particles >4µm		4259	38230	20591	---
Particles >6µm		1289	13175	4263	---
Particles >14µm		57	766	160	---
ISO 4406:1999 (c)		19/17/13	22/21/17	22/19/14	---
Silicon	ppm	<1	6	3	5
Sodium	ppm	0	2	2	2
Potassium	ppm	1	0	0	<1

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



ADDITIVES

Calcium	ppm	68	81	111	120
Magnesium	ppm	4	6	13	15
Zinc	ppm	449	480	441	462
Phosphorus	ppm	334	400	369	350
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	5	4

Depot: VOLV00142
Unique No: 10521795
Signed: Wes Davis
Report Date: 20 Jun 2023

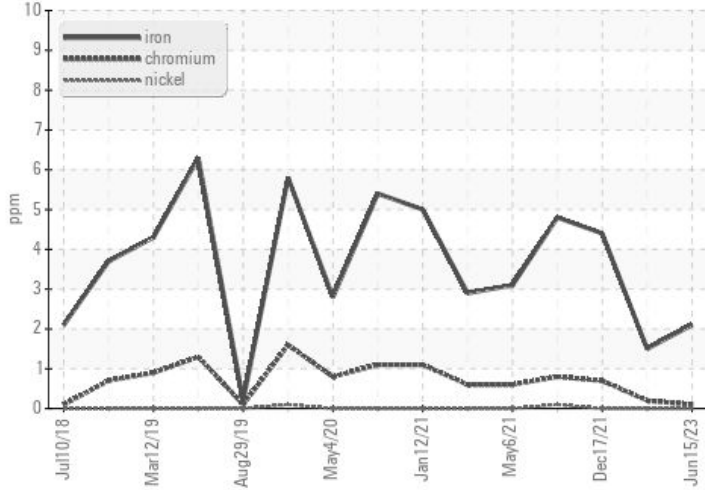


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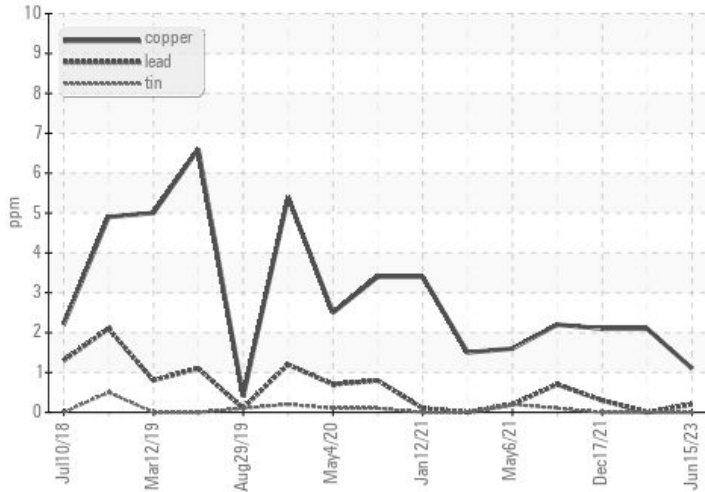


GRAPHS

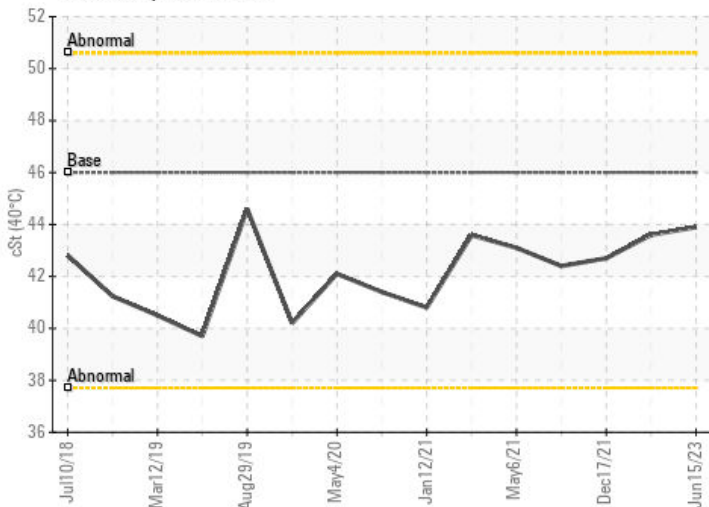
Ferrous Alloys



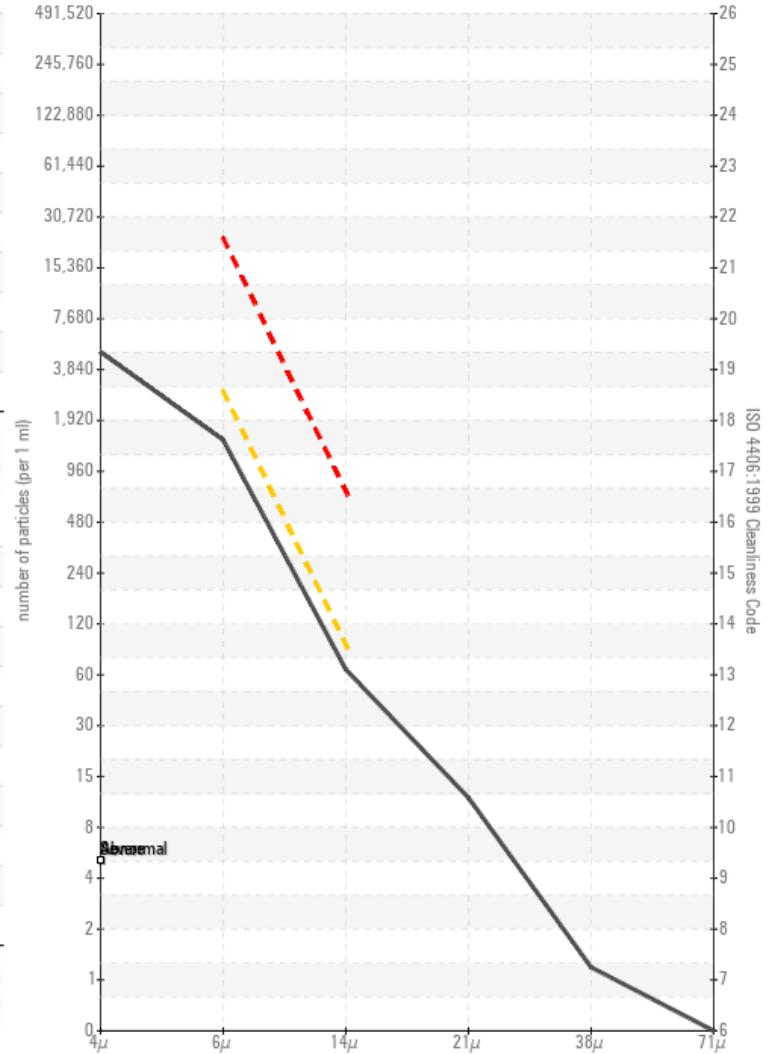
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

