



CONSTRUCTION EQUIPMENT

A11109 IAA VOLVO L90H 623537 - HYDRAULIC SYSTEM



Sample No: VCP412831
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A11109 IAA



SAMPLE INFORMATION

Sample Number	VCP412831	VCP367453	VCP339363	VCP293292
Sample Date	20 Sep 2023	14 Dec 2022	17 Dec 2021	12 Oct 2020
Machine Hours	11805	10665	9000	7920
Oil Hours	4000	2000	1000	4000
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	NORMAL

HOFFMAN EQUIPMENT - LIONVILLE
 120 GORDON DRIVE
 LIONVILLE, PA
 US 19341
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OIL CONDITION

Visc @ 40°C	cSt	41.7	42.0	43.1	40.5
Acid Number (AN)	mg KOH/g	0.22	0.30	0.310	0.324



CONTAMINATION

Particles >4µm		10734	4033	10934	3404
Particles >6µm		767	1015	2200	237
Particles >14µm		60	▲ 82	▲ 139	14
ISO 4406:1999 (c)		21/17/13	19/17/14	21/18/14	19/15/11
Silicon	ppm	6	5	4	6
Sodium	ppm	<1	0	<1	0
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	4	4	2	4
Copper	ppm	5	4	3	6
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	2	2	5
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	1	<1	<1
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	141	148	143	110
Magnesium	ppm	9	8	8	17
Zinc	ppm	479	476	462	447
Phosphorus	ppm	351	354	348	323
Barium	ppm	0	0	0	0
Boron	ppm	<1	3	0	2

Depot: VOLVO8879
Unique No: 10672754
Signed: Wes Davis
Report Date: 03 Oct 2023

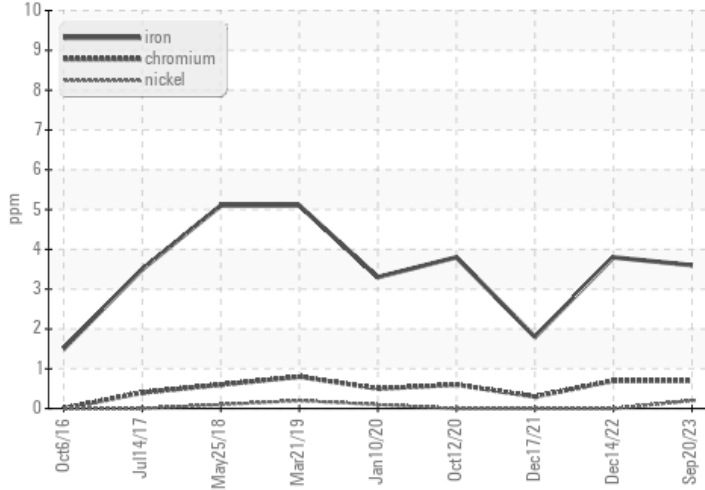


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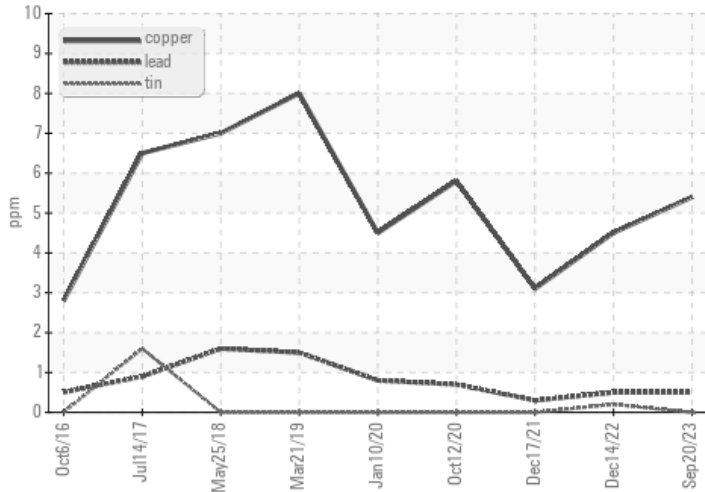


VOLVO GRAPHS

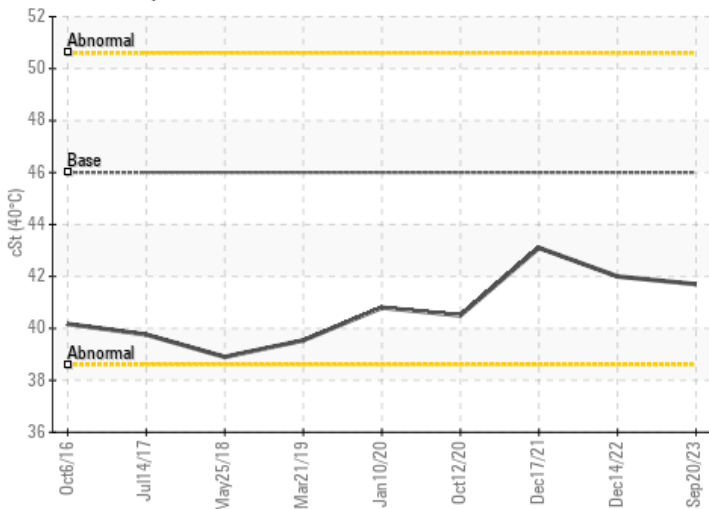
Ferrous Alloys



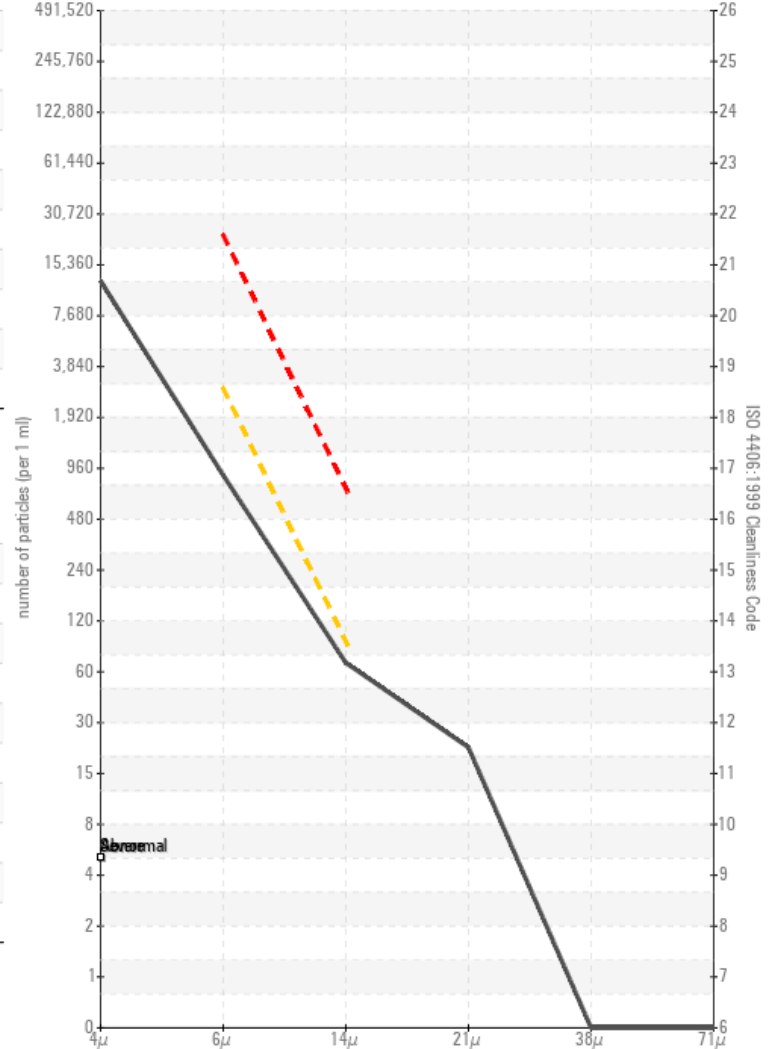
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

