



CONSTRUCTION EQUIPMENT

VOLVO A45F 342540 - HYDRAULIC SYSTEM



Sample No: VCP0007590
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007590	VCP340262	VCP301591	VCP272512
Sample Date	06 Jul 2023	09 Nov 2021	12 Feb 2021	08 Apr 2020
Machine Hours	0	4094	3069	2084
Oil Hours	0	4094	3069	0
Oil Changed	N/A	Changed	Not Changd	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

QGS - QUALITY GRASSES SERV/TCF LEASING
 17502 CR 672
 LITHIA, FL
 US 33547
 Contact: GARY ROGERS
 grogers@qgsdevelopment.com
 T: (813)323-4119
 F:



OIL CONDITION

Visc @ 40°C	cSt	41.3	40.2	40.6	41.0
Acid Number (AN)	mg KOH/g	0.31	0.466	0.337	0.494



CONTAMINATION

Particles >4µm	1778	9640	7673	9908	
Particles >6µm	396	2492	1487	1297	
Particles >14µm	31	▲ 192	40	29	
ISO 4406:1999 (c)	18/16/12	20/18/15	20/18/12	20/17/12	
Silicon	ppm	5	6	6	5
Sodium	ppm	2	3	<1	2
Potassium	ppm	1	0	<1	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	11	8	6	5
Copper	ppm	2	6	4	5
Lead	ppm	4	4	4	4
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	1	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	283	450	428	50
Magnesium	ppm	17	10	9	1
Zinc	ppm	527	522	518	434
Phosphorus	ppm	407	413	411	326
Barium	ppm	0	0	0	0
Boron	ppm	5	0	11	<1

Depot: QUALITFL
Unique No: 10549397
Signed: Wes Davis
Report Date: 11 Jul 2023

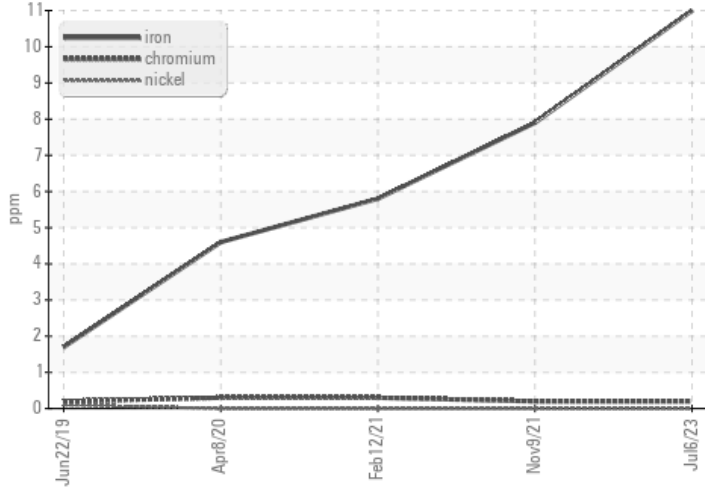


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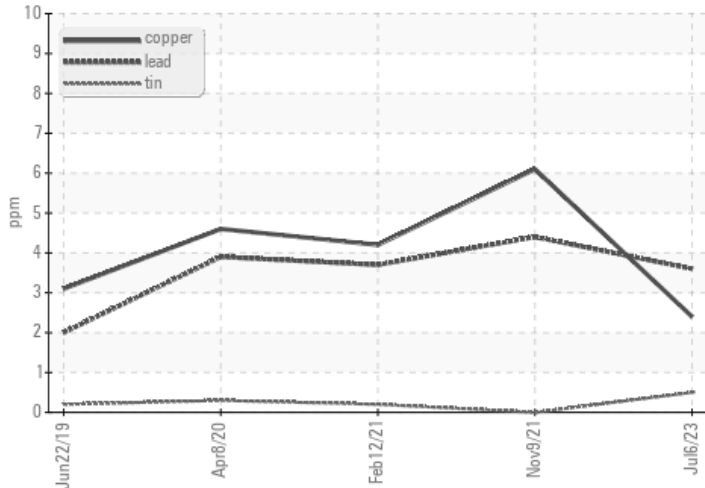


VOLVO GRAPHS

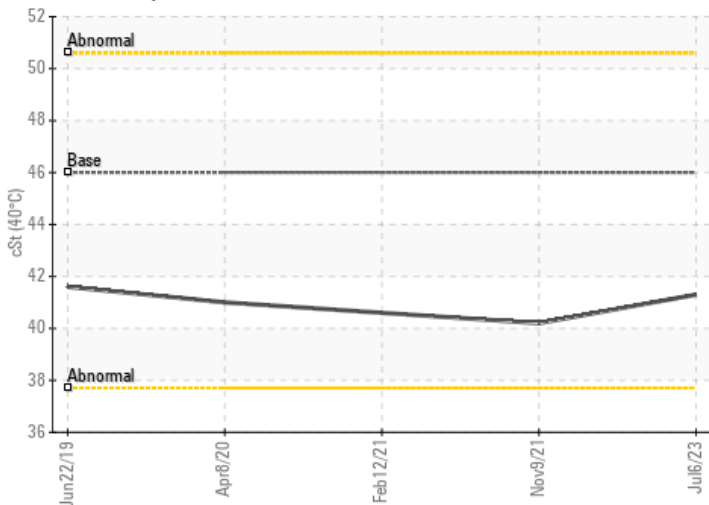
Ferrous Alloys



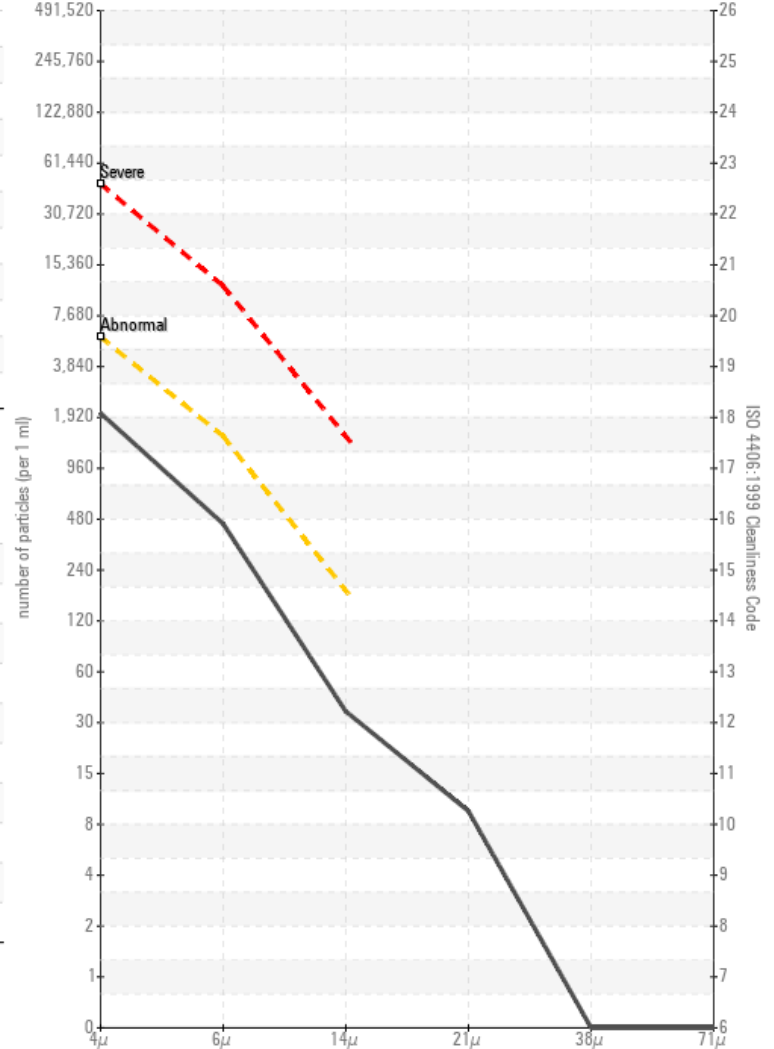
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

