



CONSTRUCTION EQUIPMENT

VOLVO A45G 342523 - HYDRAULIC SYSTEM



Sample No: VCP0008007
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP0008007	VCP419036	VCP0007986	VCP301395
Sample Date	02 Aug 2023	18 Jul 2023	06 Jul 2023	22 Dec 2020
Machine Hours	0	6542	0	3197
Oil Hours	0	0	0	3197
Oil Changed	N/A	Not Changd	N/A	Not Changd
Sample Status	NORMAL	SEVERE	ATTENTION	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	41.5	41.6	41.8	41.3
Acid Number (AN)	mg KOH/g	0.39	0.38	0.33	0.473

CONTAMINATION

Particles >4µm		2538	10928	14096	6587
Particles >6µm		495	4382	3956	1699
Particles >14µm		23	▲ 1166	▲ 294	108
ISO 4406:1999 (c)		19/16/12	21/19/17	21/19/15	20/18/14
Silicon	ppm	7	7	7	4
Sodium	ppm	4	0	2	<1
Potassium	ppm	0	1	2	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	13	14	13	8
Copper	ppm	5	4	4	6
Lead	ppm	3	4	4	4
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	4	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	2	2	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	66	69	66	57
Magnesium	ppm	7	6	5	2
Zinc	ppm	434	468	462	437
Phosphorus	ppm	338	347	355	329
Barium	ppm	0	2	0	0
Boron	ppm	0	0	0	<1

Depot: QUALITFL
Unique No: 10587936
Signed: Don Baldrige
Report Date: 07 Aug 2023

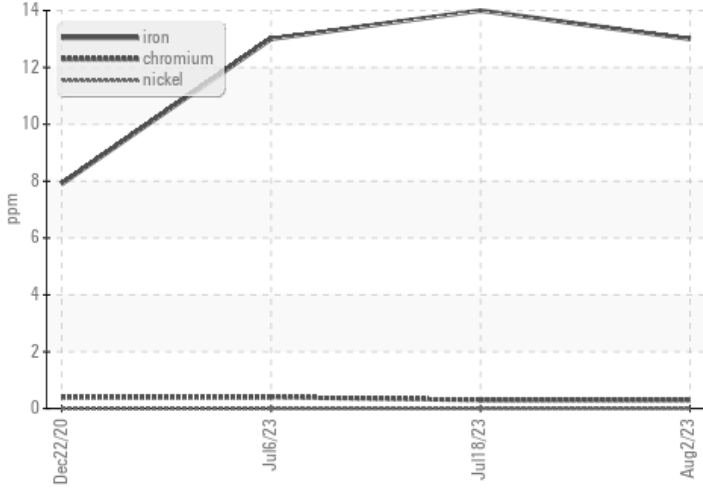


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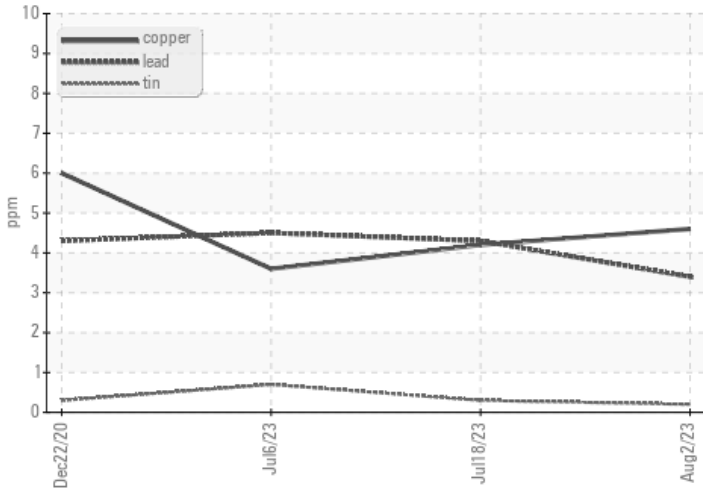


GRAPHS

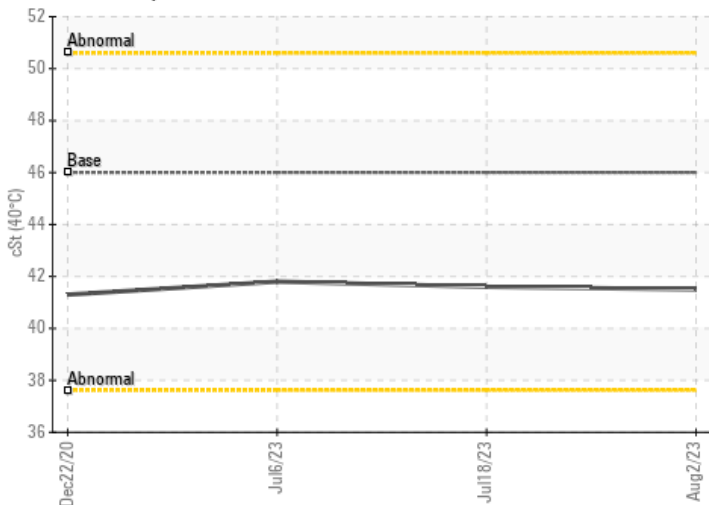
Ferrous Alloys



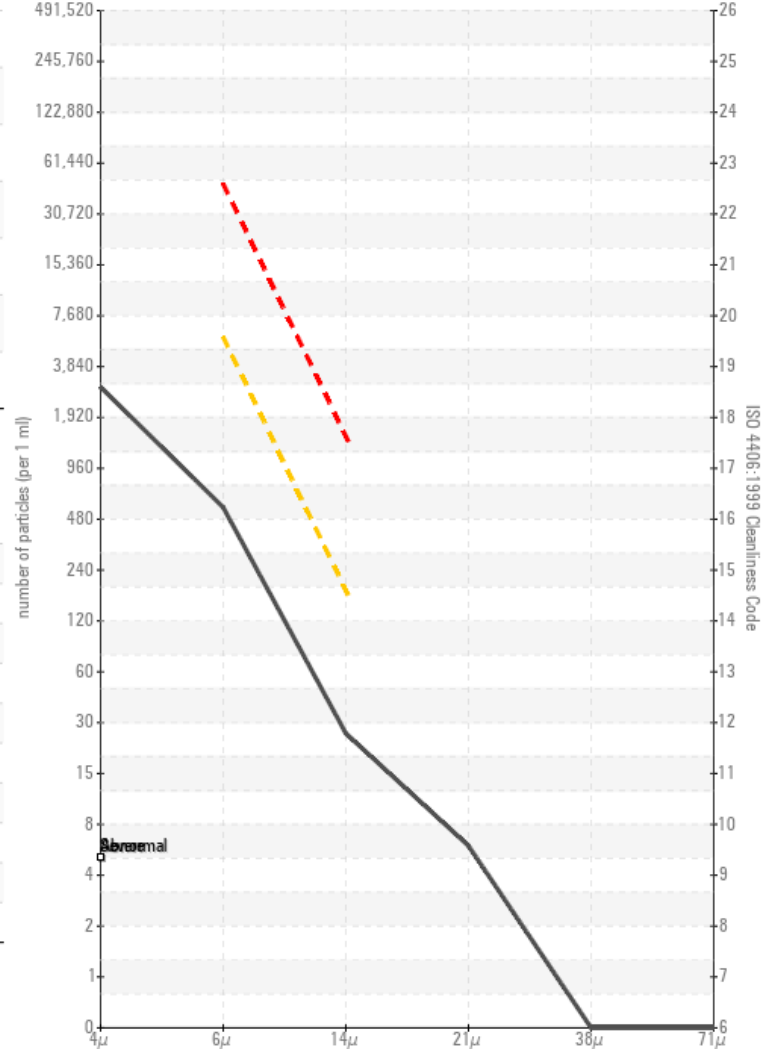
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

