



CONSTRUCTION EQUIPMENT

302922 VOLVO L90H 624904 - HYDRAULIC SYSTEM



Sample No: VCP417419
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 302922



SAMPLE INFORMATION

Sample Number	VCP417419	VCP403689	VCP399231	VCP385500
Sample Date	06 Jul 2023	16 Mar 2023	19 Dec 2022	08 Oct 2022
Machine Hours	6313	6080	5520	5028
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

COVANTA LAKES
 3830 ROGERS INDUSTRIAL PARK ROAD
 OKAHUMPKA, FL
 US 32762
 Contact: SERVICE MANAGER

OIL CONDITION

Visc @ 40°C	cSt	48.1	47.5	49.1	48.6
Acid Number (AN)	mg KOH/g	0.33	0.36	0.37	0.36

T:
F:

CONTAMINATION

Particles >4µm	1448	11186	3317	1371
Particles >6µm	393	1906	866	136
Particles >14µm	16	120	97	9
ISO 4406:1999 (c)	18/16/11	21/18/14	19/17/14	18/14/10
Silicon	ppm	2	2	2
Sodium	ppm	0	0	3
Potassium	ppm	2	<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	10	9	6	1
Copper	ppm	2	1	1	<1
Lead	ppm	1	<1	<1	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	1	1	<1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	78	83	80	57
Magnesium	ppm	7	11	8	12
Zinc	ppm	444	462	438	449
Phosphorus	ppm	344	341	353	349
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	0	0

Depot: COVOKA
Unique No: 10550760
Signed: Wes Davis
Report Date: 12 Jul 2023

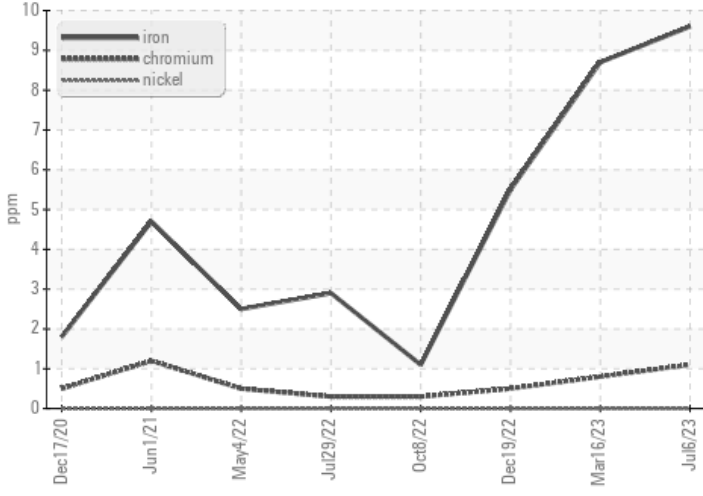


CONSTRUCTION EQUIPMENT

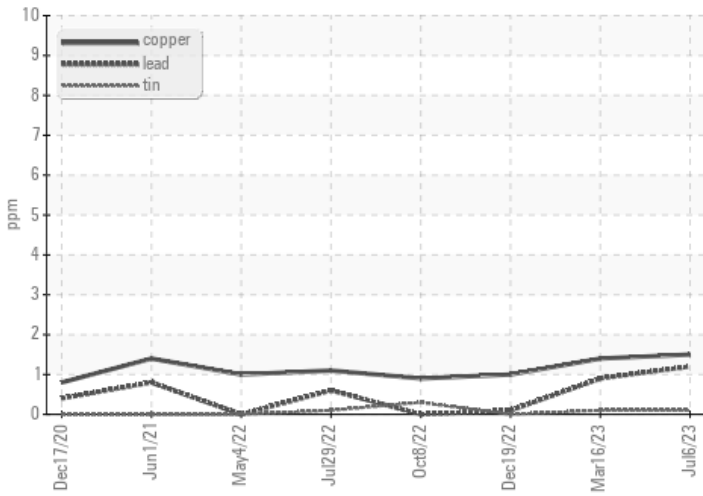


GRAPHS

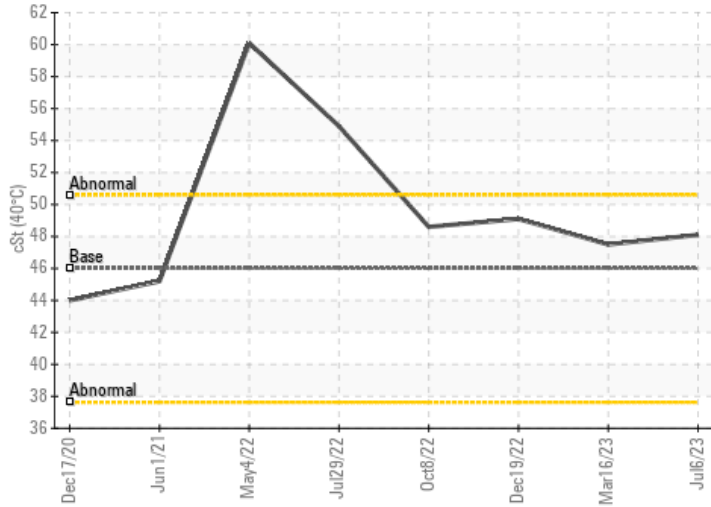
Ferrous Alloys



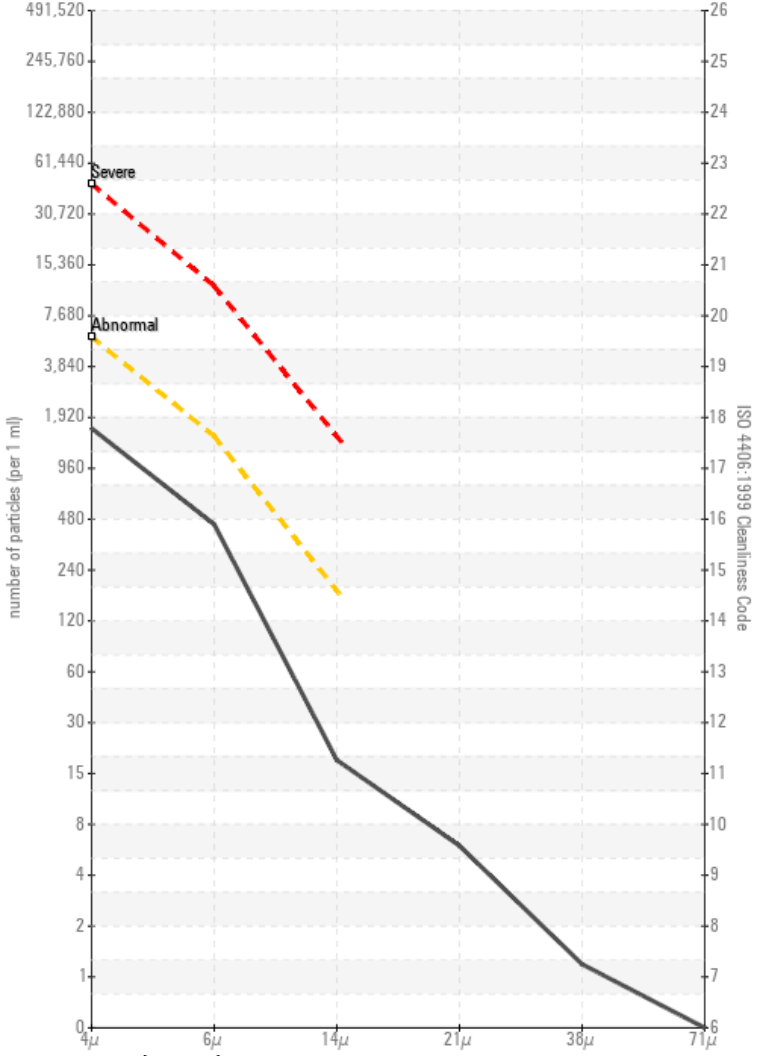
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

