



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 314981 - HYDRAULIC SYSTEM



Sample No: VCP369499
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP369499	VCP405909	VCP402282	VCP388378
Sample Date	07 Aug 2023	07 Jun 2023	22 Mar 2023	11 Jan 2023
Machine Hours	1929	1475	982	499
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269

OIL CONDITION

Visc @ 40°C	cSt	41.8	42.3	42.4	42.3
Acid Number (AN)	mg KOH/g	0.53	0.54	0.51	0.49

CONTAMINATION

Particles >4µm	1332	9479	1533	1988	
Particles >6µm	328	1594	352	535	
Particles >14µm	17	57	17	42	
ISO 4406:1999 (c)	18/16/11	20/18/13	18/16/11	18/16/13	
Silicon	ppm	5	5	4	3
Sodium	ppm	2	0	0	0
Potassium	ppm	2	1	<1	1

Diagnosis

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

WEAR METALS

Iron	ppm	5	4	2	2
Copper	ppm	42	33	22	17
Lead	ppm	2	<1	0	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	<1	0	0	0
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	<1	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	93	99	100	115
Magnesium	ppm	2	<1	4	<1
Zinc	ppm	537	553	591	553
Phosphorus	ppm	431	411	427	418
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10607133
Signed: Jonathan Hester
Report Date: 21 Aug 2023

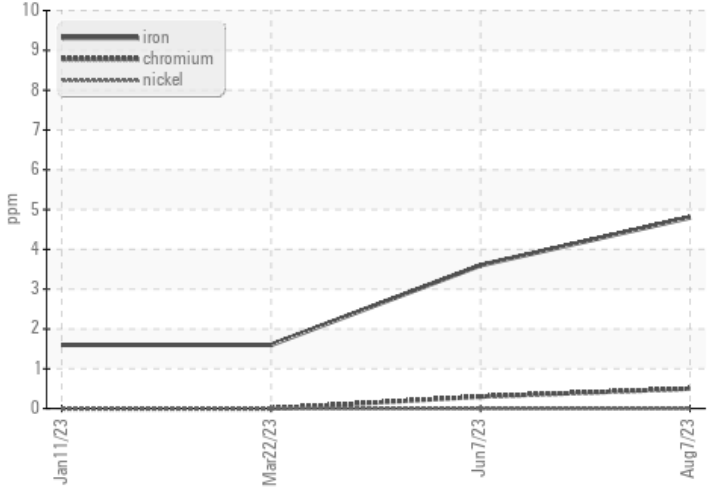


CONSTRUCTION EQUIPMENT

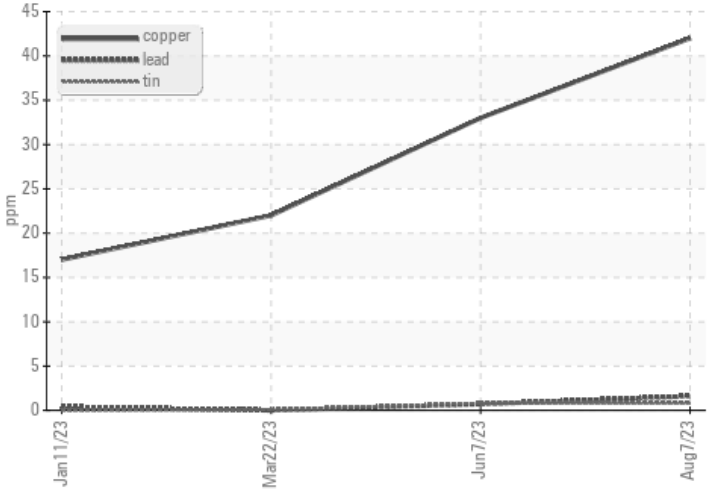


VOLVO GRAPHS

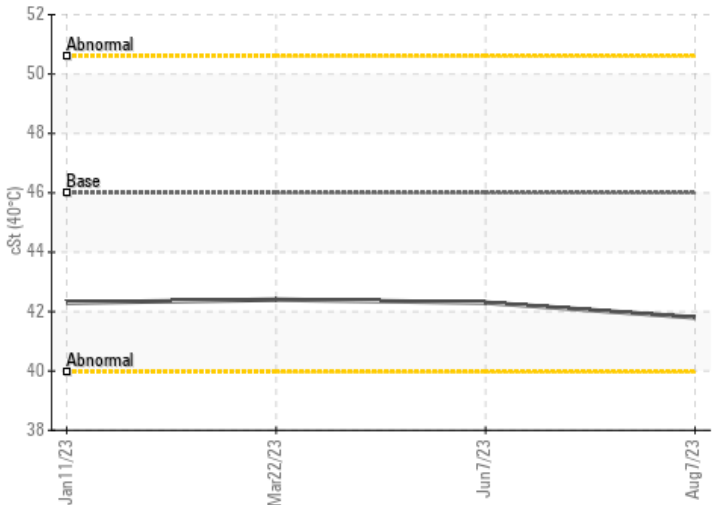
Ferrous Alloys



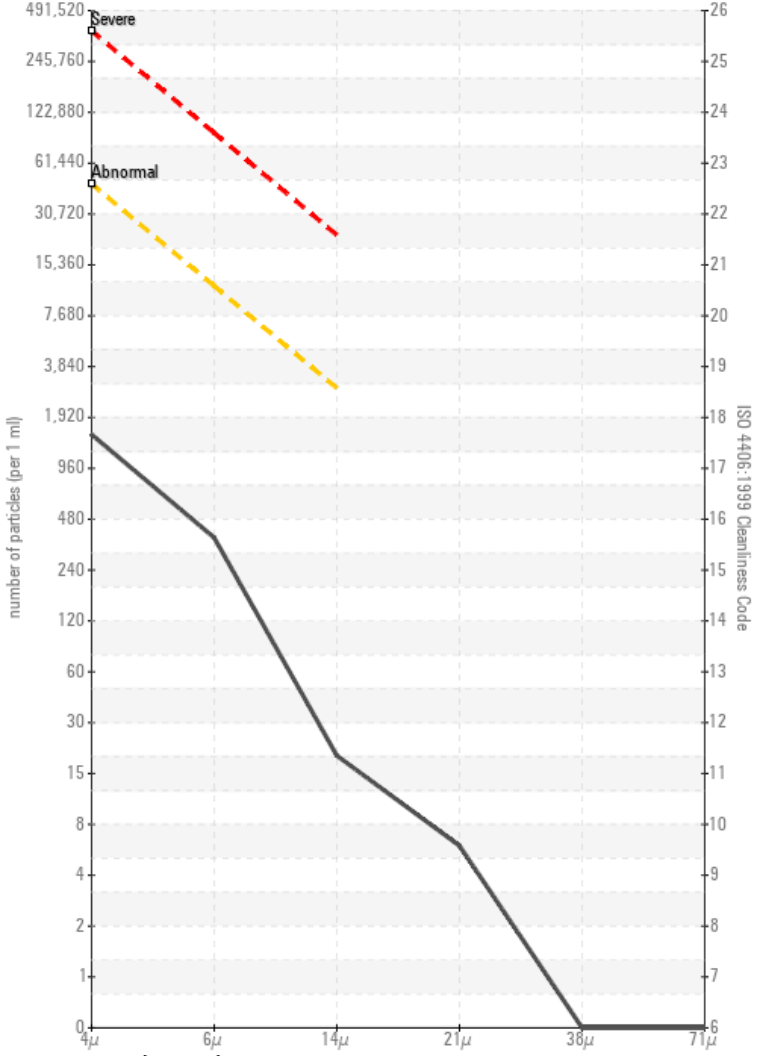
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

