



CONSTRUCTION EQUIPMENT

VOLVO EC480E 314146 - HYDRAULIC SYSTEM



Sample No: VCP419110
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP419110	VCP403628	VCP371499	VCP384698
Sample Date	28 Aug 2023	03 May 2023	17 Jan 2023	07 Oct 2022
Machine Hours	6421	5940	5434	4977
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	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	45.5	49.1	47.3	46.1
Acid Number (AN)	mg KOH/g	0.46	0.53	0.51	0.54

CONTAMINATION

Particles >4µm	32058	1016	28616	35989	
Particles >6µm	4162	80	4634	6155	
Particles >14µm	38	8	143	225	
ISO 4406:1999 (c)	22/19/12	17/13/10	22/19/14	22/20/15	
Silicon	ppm	2	2	3	3
Sodium	ppm	1	3	0	<1
Potassium	ppm	<1	0	2	<1

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	5	7	6	5
Copper	ppm	7	10	8	7
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	9	11	5	2
Molybdenum	ppm	1	1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	129	153	164	168
Magnesium	ppm	63	27	27	30
Zinc	ppm	580	579	607	582
Phosphorus	ppm	468	437	431	447
Barium	ppm	0	0	0	0
Boron	ppm	0	1	0	<1

Depot: SAIBIR
Unique No: 10643160
Signed: Don Baldrige
Report Date: 13 Sep 2023

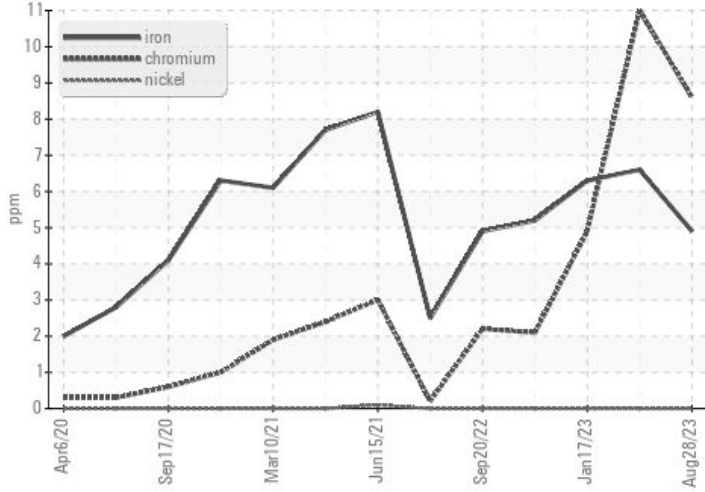


CONSTRUCTION EQUIPMENT

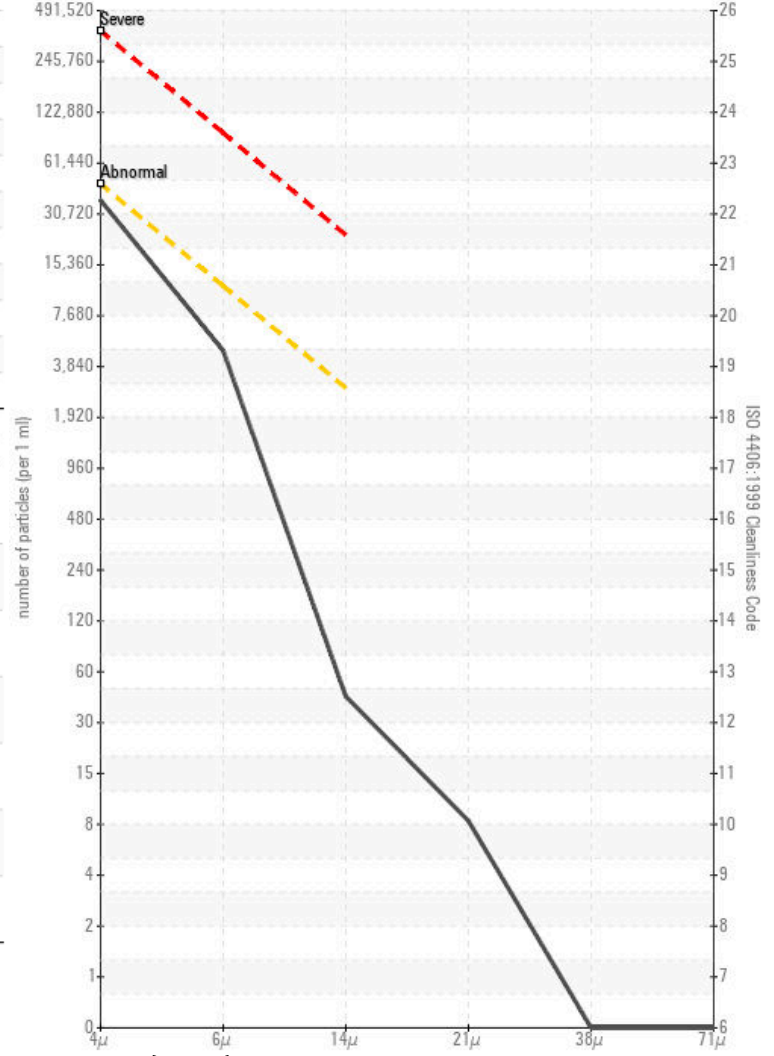


GRAPHS

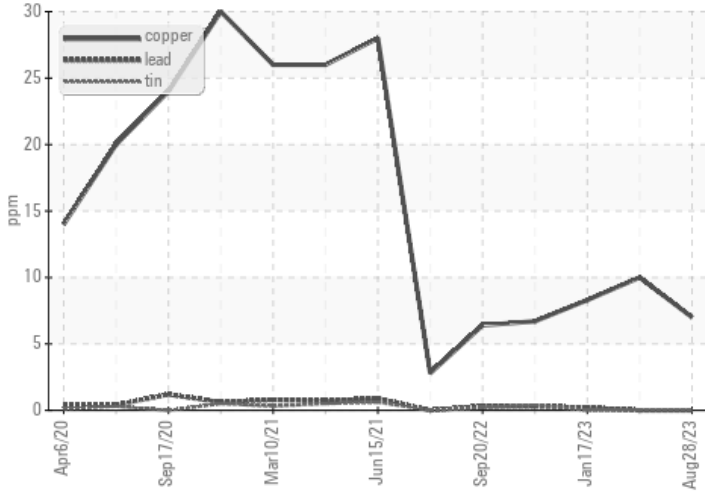
Ferrous Alloys



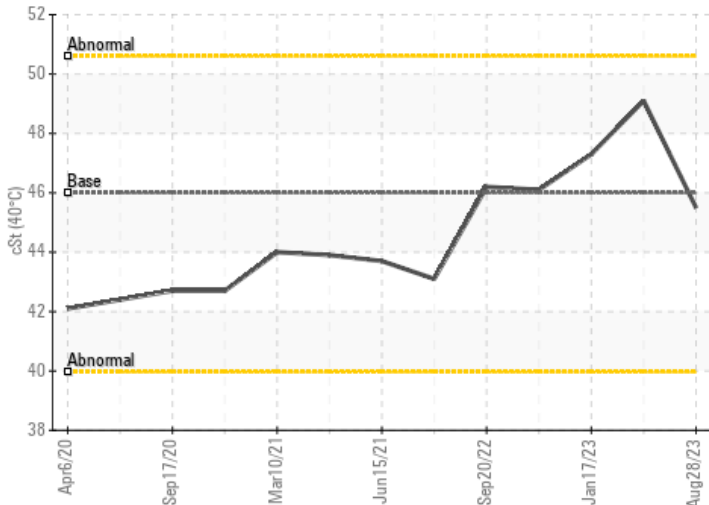
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

