



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 314981 - HYDRAULIC SYSTEM



Sample No: VCP438693
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP438693	VCP431808	VCP433863	VCP369499
Sample Date	15 Apr 2024	07 Feb 2024	23 Oct 2023	07 Aug 2023
Machine Hours	3400	2922	2416	1929
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	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	42.5	42.8	42.5	41.8
Acid Number (AN)	mg KOH/g	0.90	0.85	0.83	0.53

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		11752	39296	80876	1332
Particles >6µm		1931	2993	14297	328
Particles >14µm		97	76	313	17
ISO 4406:1999 (c)		21/18/14	22/19/13	24/21/15	18/16/11
Silicon	ppm	4	4	6	5
Sodium	ppm	<1	<1	3	2
Potassium	ppm	0	0	0	2

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	6	6	5
Copper	ppm	34	35	37	42
Lead	ppm	0	<1	<1	2
Tin	ppm	1	2	2	<1
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	1	2	2	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	101	83	80	93
Magnesium	ppm	317	297	254	2
Zinc	ppm	935	818	793	537
Phosphorus	ppm	777	664	670	431
Barium	ppm	0	0	19	0
Boron	ppm	0	<1	0	0

Depot: SAIBIR
Unique No: 11003476
Signed: Don Baldrige
Report Date: 01 May 2024

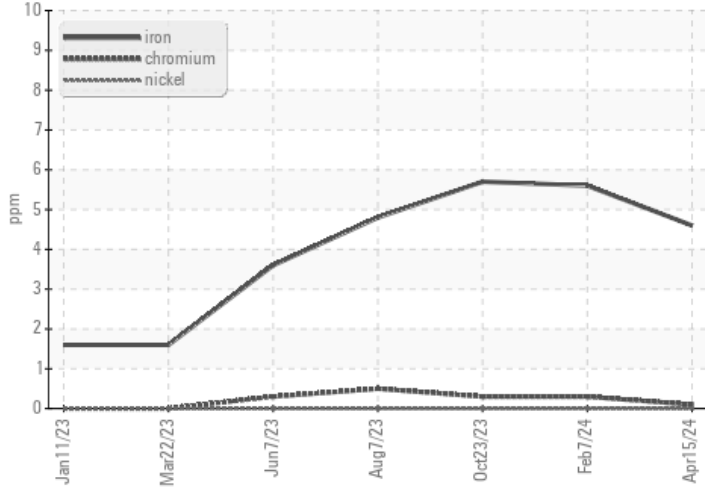


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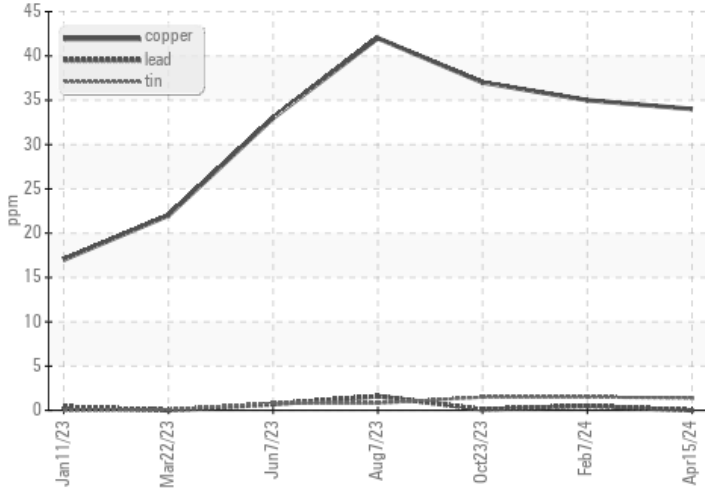


GRAPHS

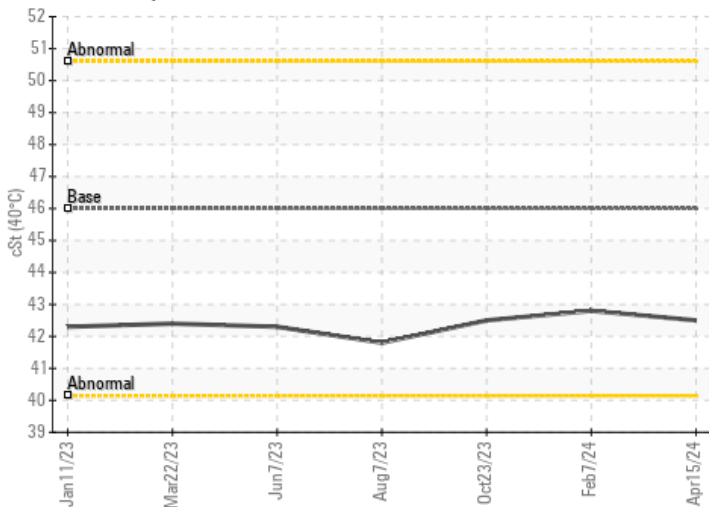
Ferrous Alloys



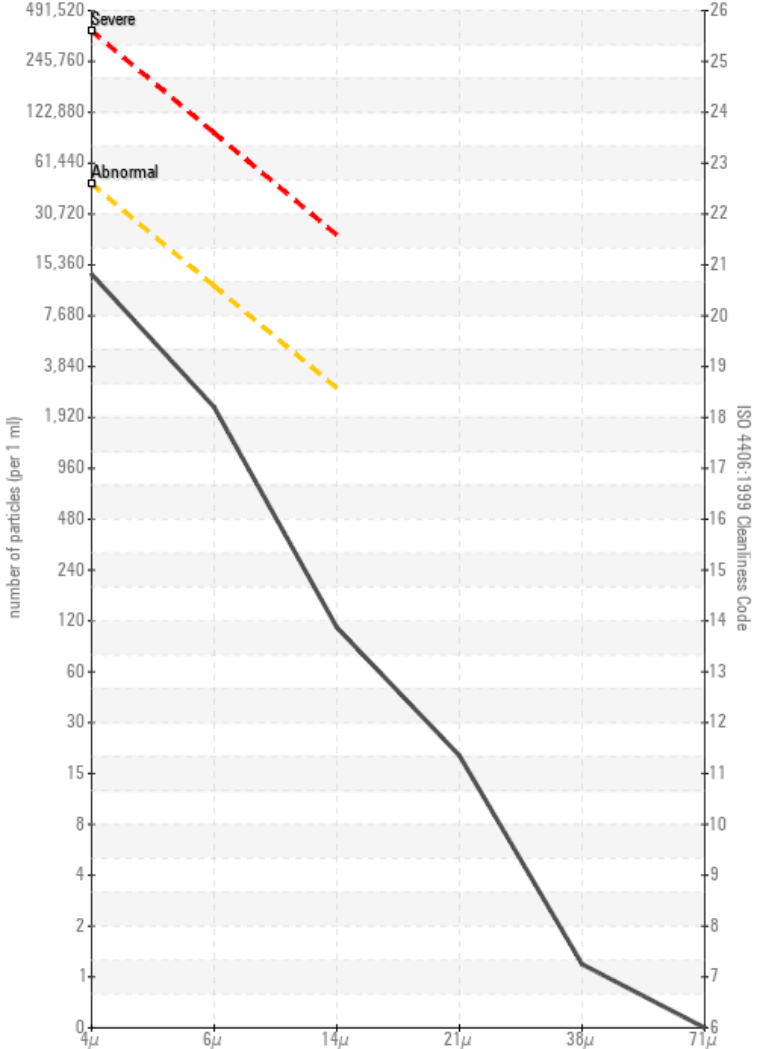
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

