CONSTRUCTION EQUIPMENT
VOLVO EC480EL 314981 - HYDRAULIC SYSTEM

Sample No: VCP431808
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:

SAIIA CONSTRUCTION LLC
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BIRMINGHAM, AL
US 35207
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SAMPLE INFORMATION

Sample Number		**VCP431808**	VCP433863	VCP369499	VCP405909
Sample Date		**07 Feb 2024**	23 Oct 2023	07 Aug 2023	07 Jun 2023
Machine Hours		**2922**	2416	1929	1475
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Changed	Not Changd
Sample Status		**NORMAL**	ABNORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**42.8**	42.5	41.8	42.3
Acid Number (AN)	mg KOH/g	**0.85**	0.83	0.53	0.54

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**39296**	▲ 80876	1332	9479
Particles >6µm		**2993**	▲ 14297	328	1594
Particles >14µm		**76**	313	17	57
ISO 4406:1999 (c)		**22/19/13**	24/21/15	18/16/11	20/18/13
Silicon	ppm	**4**	6	5	5
Sodium	ppm	**<1**	3	2	0
Potassium	ppm	**0**	0	2	1

WEAR METALS

Iron	ppm	**6**	6	5	4
Copper	ppm	**35**	37	42	33
Lead	ppm	**<1**	<1	2	<1
Tin	ppm	**2**	2	<1	<1
Aluminum	ppm	**<1**	<1	<1	0
Chromium	ppm	**<1**	<1	<1	<1
Molybdenum	ppm	**2**	2	<1	0
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	<1	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	<1	<1	<1
Vanadium	ppm	**0**	0	<1	0

ADDITIVES

Calcium	ppm	**83**	80	93	99
Magnesium	ppm	**297**	254	2	<1
Zinc	ppm	**818**	793	537	553
Phosphorus	ppm	**664**	670	431	411
Barium	ppm	**0**	19	0	0
Boron	ppm	**<1**	0	0	0

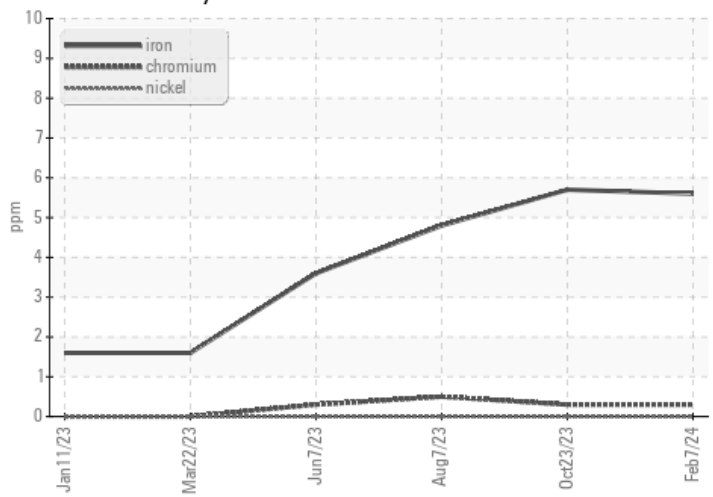
Diagnosis

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.

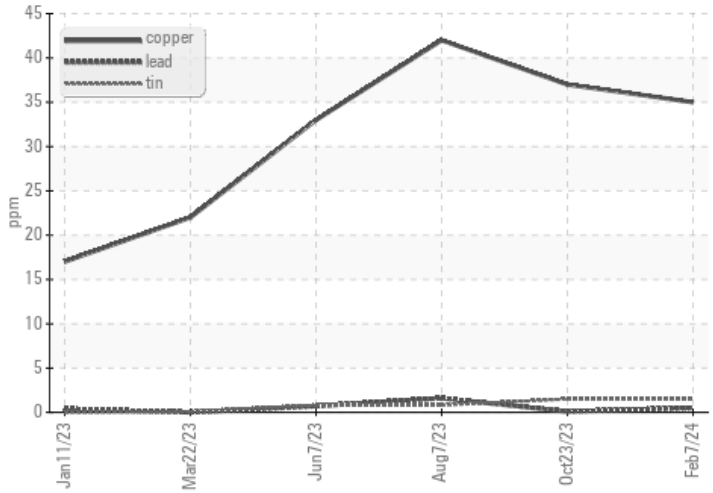
Depot: SAIBIR
Unique No: 10882929
Signed: Don Baldridge
Report Date: 16 Feb 2024

GRAPHS

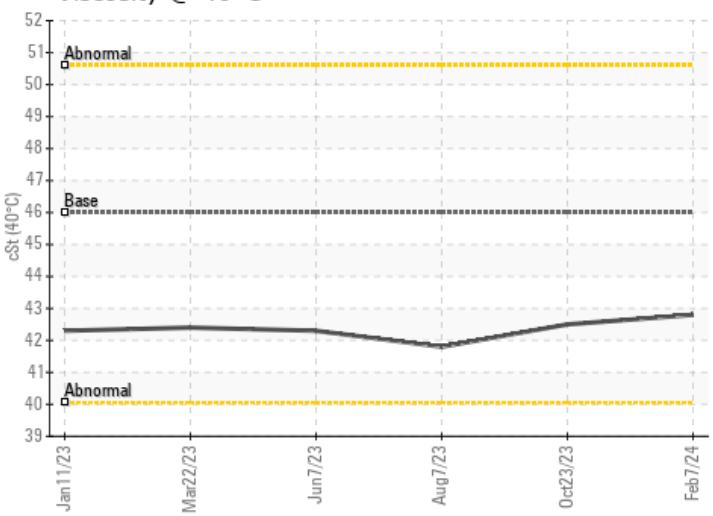
Ferrous Alloys



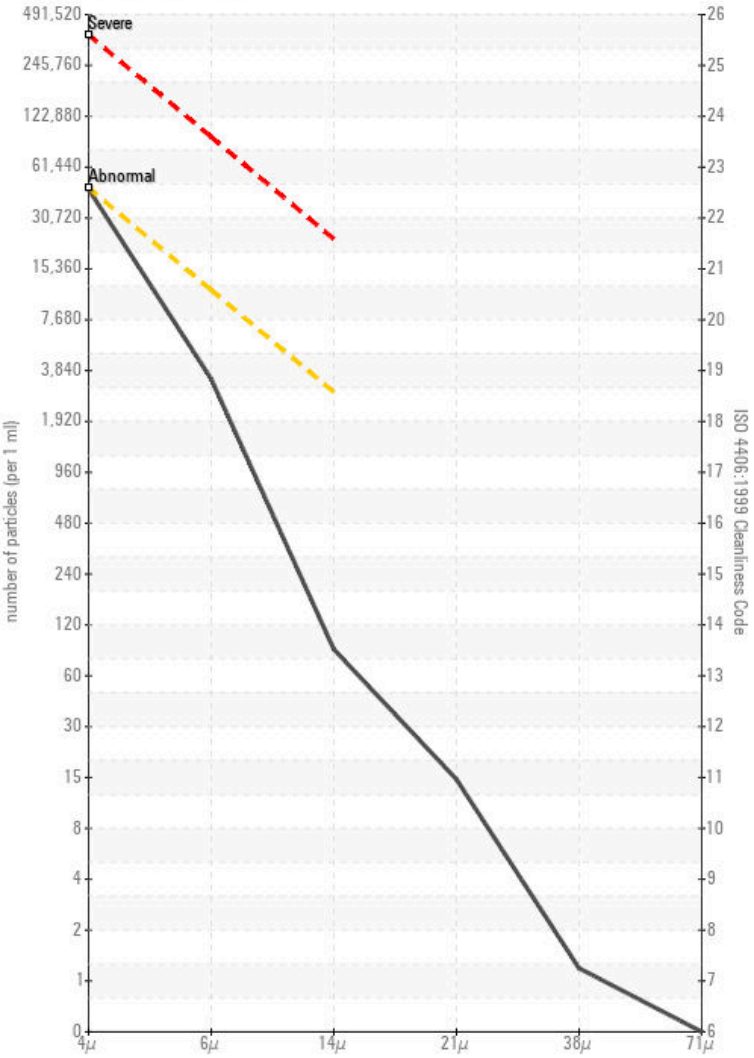
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number