



CONSTRUCTION EQUIPMENT

SWO-069621 EPIROC TMG21 SEDO165 - HYDRAULIC SYSTEM



Sample No: VCP444237
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-069621



SAMPLE INFORMATION

Sample Number	VCP444237	VCP442502	VCP445717	VCP431670
Sample Date	13 Feb 2024	04 Jan 2024	14 Nov 2023	04 Oct 2023
Machine Hours	4946	4682	4407	4102
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	47.0	51.6	51.2	50.3
Acid Number (AN)	mg KOH/g	0.58	0.53	0.44	0.56

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4737	9948	1636	4308
Particles >6µm		1790	3786	279	1259
Particles >14µm		160	278	12	55
ISO 4406:1999 (c)		19/18/14	20/19/15	18/15/11	19/17/13
Silicon	ppm	3	3	4	4
Sodium	ppm	1	0	0	<1
Potassium	ppm	<1	0	0	0

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present 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	2	6	6	4
Copper	ppm	2	3	3	3
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	0	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	2	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	110	83	73	85
Magnesium	ppm	32	35	0	5
Zinc	ppm	598	599	540	525
Phosphorus	ppm	429	440	369	371
Barium	ppm	0	0	0	0
Boron	ppm	2	0	0	0

Depot: SAIBIR
Unique No: 10884559
Signed: Don Baldrige
Report Date: 19 Feb 2024

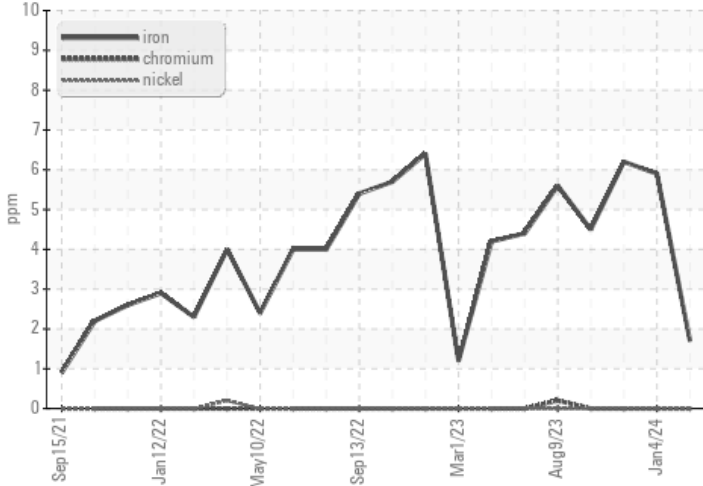


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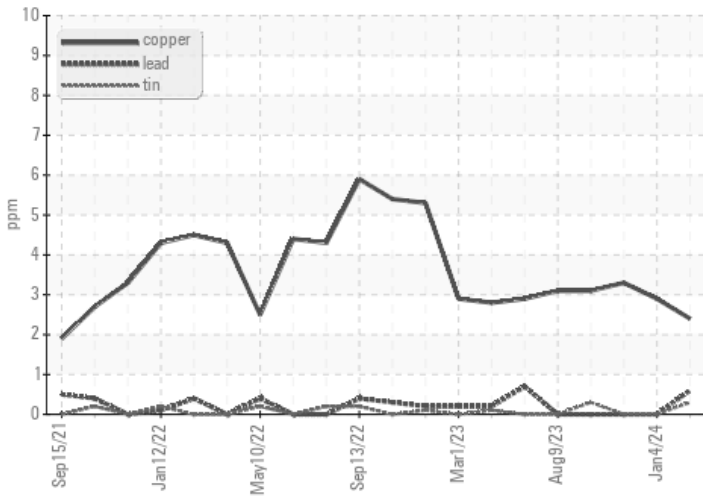


GRAPHS

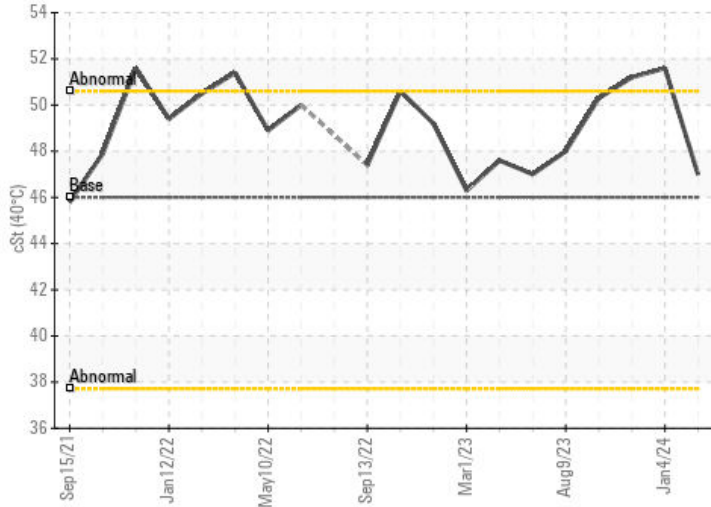
Ferrous Alloys



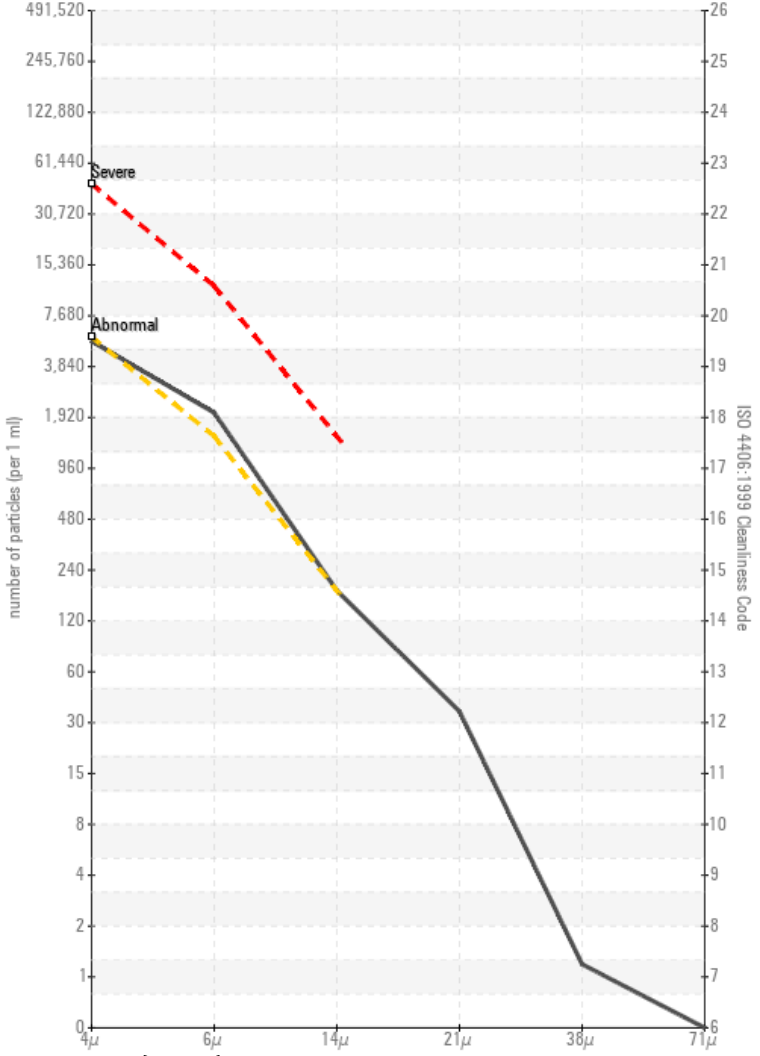
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

