



CONSTRUCTION EQUIPMENT

SWO-068635 EPIROC TMG21 SEDO165 - HYDRAULIC SYSTEM



Sample No: VCP442502
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-068635



SAMPLE INFORMATION

Sample Number	VCP442502	VCP445717	VCP431670	VCP414175
Sample Date	04 Jan 2024	14 Nov 2023	04 Oct 2023	09 Aug 2023
Machine Hours	4682	4407	4102	3817
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	51.6	51.2	50.3	48.0
Acid Number (AN)	mg KOH/g	0.53	0.44	0.56	0.52



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 9948	1636	4308	2588
Particles >6µm		▲ 3786	279	1259	786
Particles >14µm		▲ 278	12	55	31
ISO 4406:1999 (c)		20/19/15	18/15/11	19/17/13	19/17/12
Silicon	ppm	3	4	4	4
Sodium	ppm	0	0	<1	1
Potassium	ppm	0	0	0	2

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 high amount of particulates 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	6	6	4	6
Copper	ppm	3	3	3	3
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	0	0	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	83	73	85	98
Magnesium	ppm	35	0	5	6
Zinc	ppm	599	540	525	549
Phosphorus	ppm	440	369	371	417
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10830640
Signed: Don Baldrige
Report Date: 15 Jan 2024

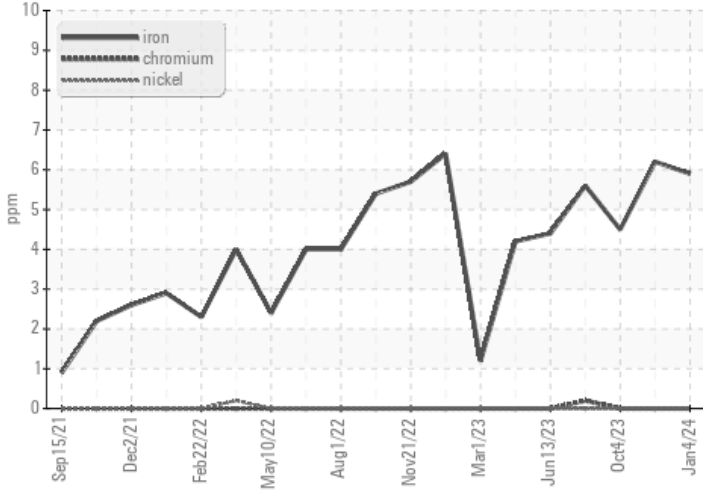


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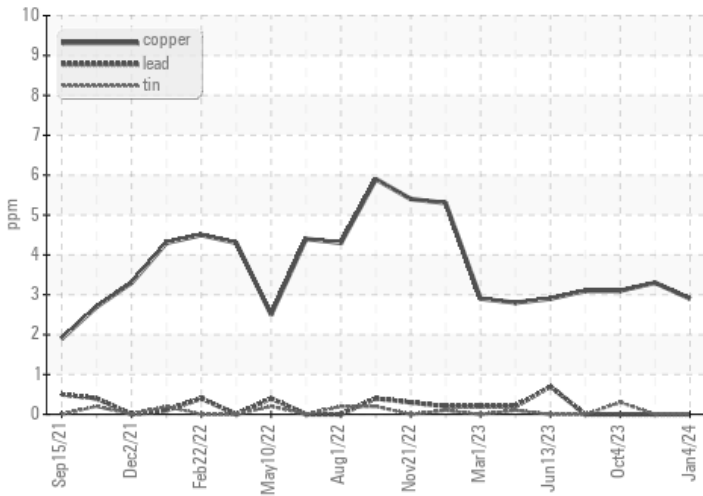


GRAPHS

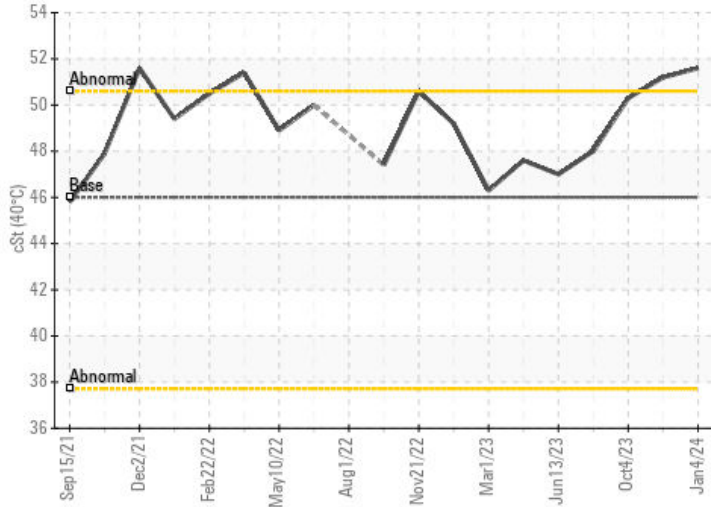
Ferrous Alloys



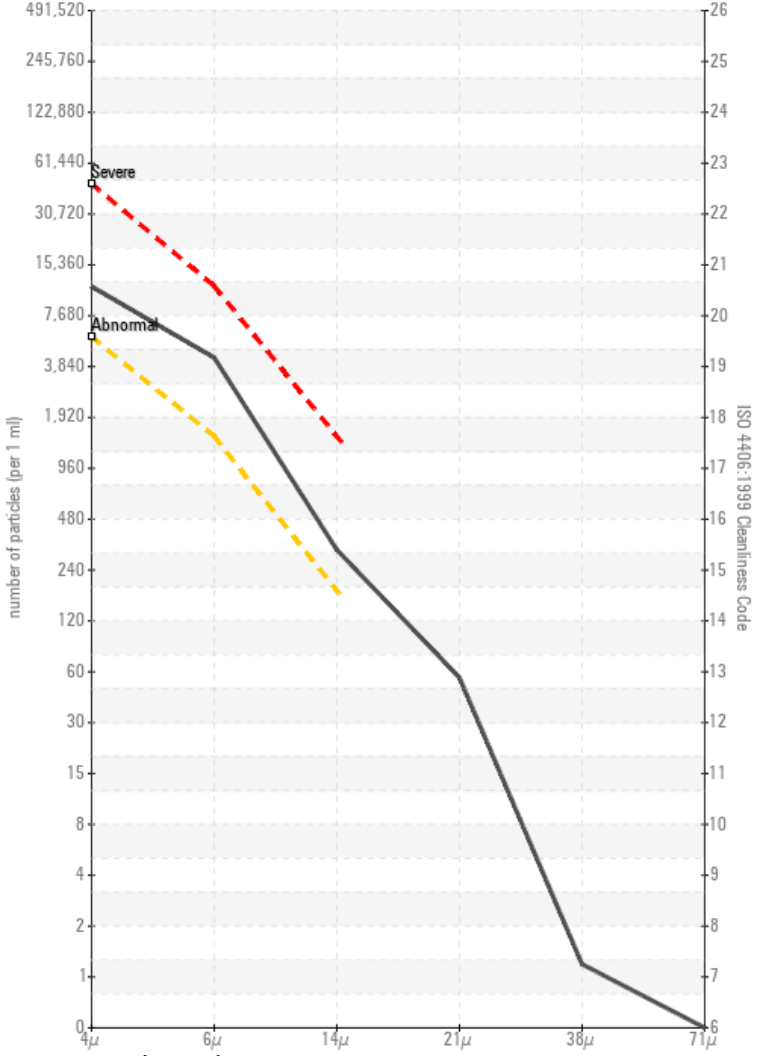
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

