



CONSTRUCTION EQUIPMENT

SWO-070501 EPIROC TMG21 SEDO346 - HYDRAULIC SYSTEM



Sample No: VCP455401
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-070501



SAMPLE INFORMATION

Sample Number	VCP455401	VCP452465	VCP446723	VCP414812
Sample Date	17 Mar 2024	11 Mar 2024	05 Feb 2024	20 Dec 2023
Machine Hours	5276	5253	5020	4779
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	46.0	46.0	48.4	46.4
Acid Number (AN)	mg KOH/g	0.79	0.74	0.64	0.68

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2483	61333	22777	1849
Particles >6µm		845	27201	10170	598
Particles >14µm		60	1705	973	29
ISO 4406:1999 (c)		18/17/13	23/22/18	22/21/17	18/16/12
Silicon	ppm	7	6	8	8
Sodium	ppm	1	2	1	<1
Potassium	ppm	0	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.

WEAR METALS

Iron	ppm	5	4	4	4
Copper	ppm	3	2	2	2
Lead	ppm	0	1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	0	0	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	2	1	<1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	103	94	97	95
Magnesium	ppm	112	94	118	143
Zinc	ppm	712	548	678	697
Phosphorus	ppm	531	501	512	544
Barium	ppm	0	0	0	0
Boron	ppm	0	0	<1	0

Depot: SAIBIR
Unique No: 10938974
Signed: Don Baldrige
Report Date: 24 Mar 2024

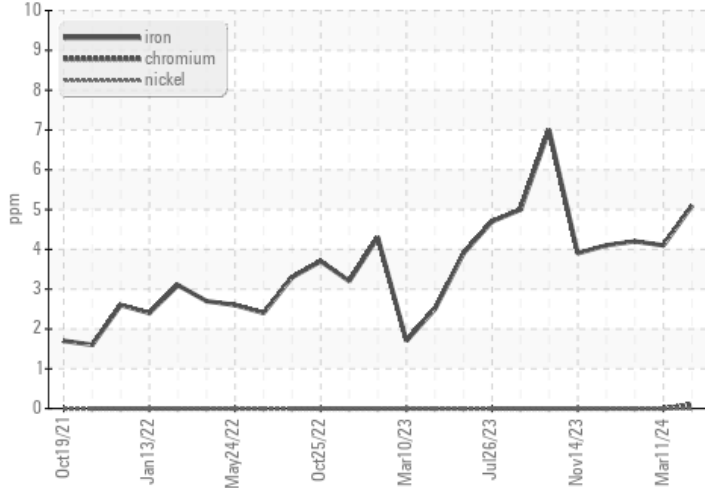


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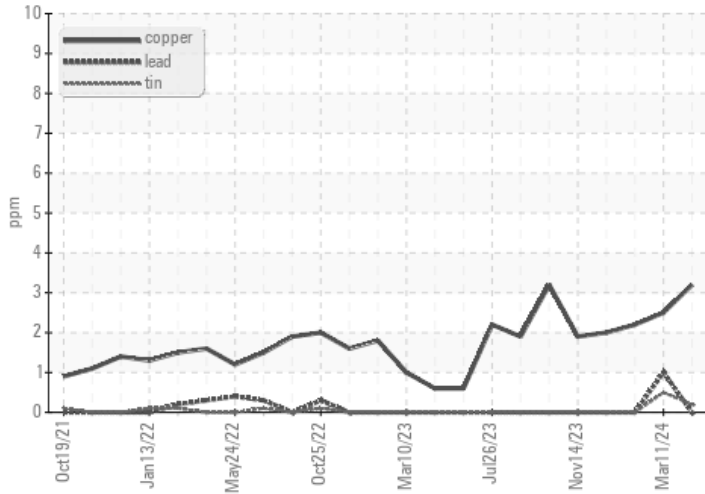


GRAPHS

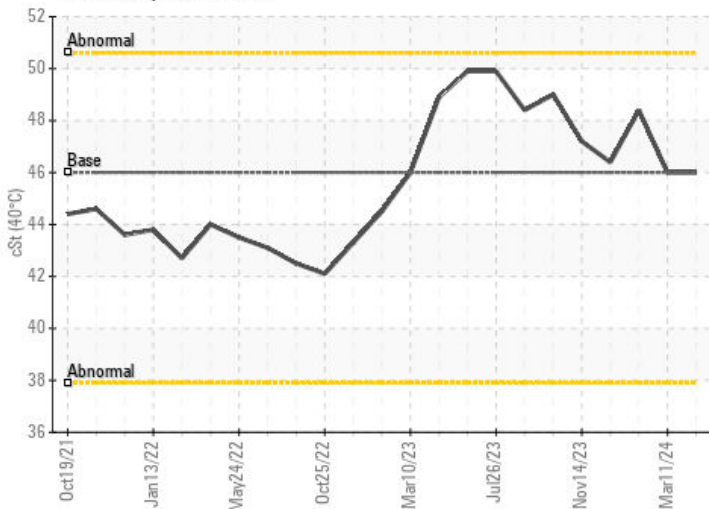
Ferrous Alloys



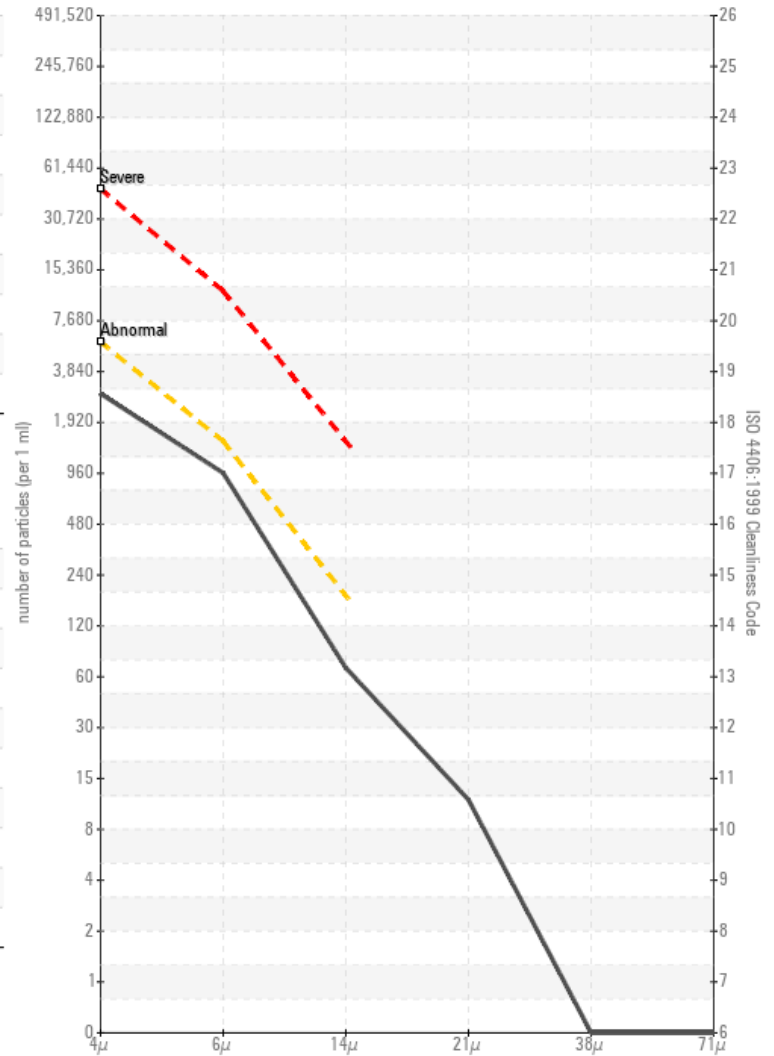
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

