

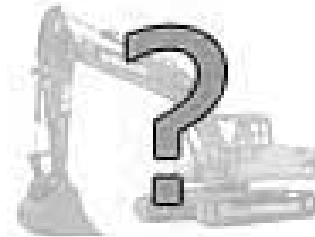


CONSTRUCTION EQUIPMENT

SWO-070506 EPIROC TMG21 SEDO165 - HYDRAULIC SYSTEM



Sample No: VCP455403
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-070506



SAMPLE INFORMATION

Sample Number	VCP455403	VCP444237	VCP442502	VCP445717
Sample Date	17 Mar 2024	13 Feb 2024	04 Jan 2024	14 Nov 2023
Machine Hours	5181	4946	4682	4407
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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 BIRMINGHAM, AL
 US 35207

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OIL CONDITION

Visc @ 40°C	cSt	47.2	47.0	51.6	51.2
Acid Number (AN)	mg KOH/g	0.70	0.58	0.53	0.44



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		32675	4737	9948	1636
Particles >6µm		13483	1790	3786	279
Particles >14µm		1377	160	278	12
ISO 4406:1999 (c)		22/21/18	19/18/14	20/19/15	18/15/11
Silicon	ppm	3	3	3	4
Sodium	ppm	<1	1	0	0
Potassium	ppm	0	<1	0	0

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	4	2	6	6
Copper	ppm	3	2	3	3
Lead	ppm	0	<1	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	0	<1	0	0
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	2	2	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	118	110	83	73
Magnesium	ppm	22	32	35	0
Zinc	ppm	711	598	599	540
Phosphorus	ppm	546	429	440	369
Barium	ppm	0	0	0	0
Boron	ppm	0	2	0	0

Depot: SAIBIR
Unique No: 10938975
Signed: Don Baldrige
Report Date: 24 Mar 2024

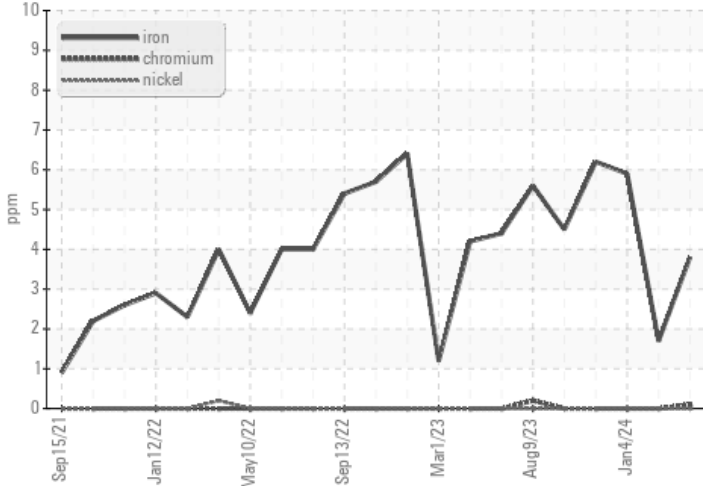


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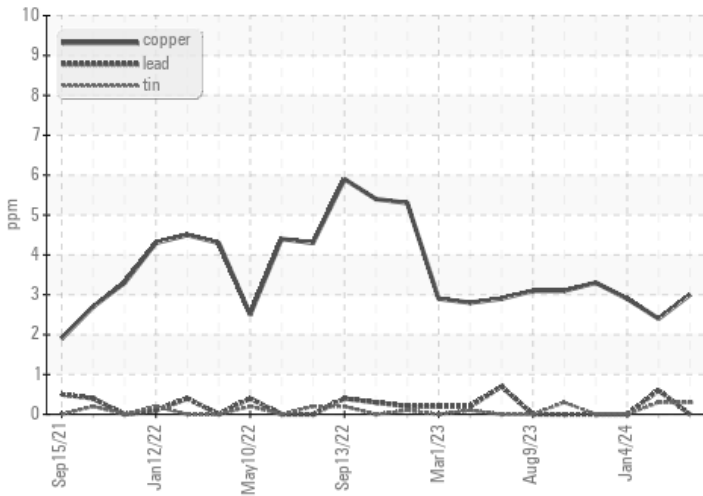


GRAPHS

Ferrous Alloys



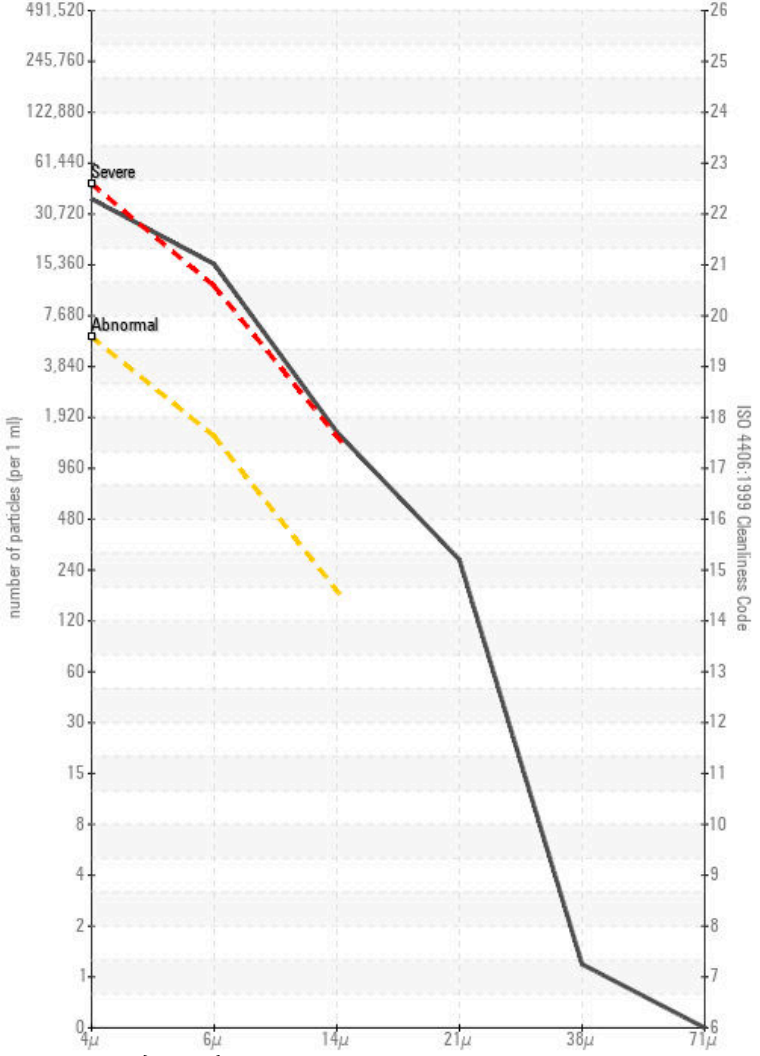
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

