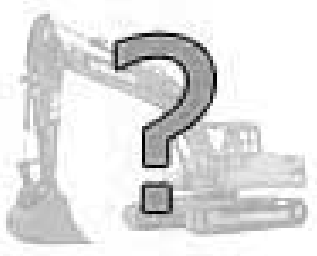
CONSTRUCTION EQUIPMENT

SWO-072945 EPIROC TMG21SED0346 - HYDRAULIC SYSTEM

Sample No: VCP415932D
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-072945



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SAMPLE INFORMATION

Sample Number		**VCP415932D**	VCP453683	VCP455401	VCP452465
Sample Date		**23 Jun 2024**	30 Apr 2024	17 Mar 2024	11 Mar 2024
Machine Hours		**5768**	5492	5276	5253
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Changed	Not Changd
Sample Status		**ABNORMAL**	ATTENTION	NORMAL	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**44.9**	44.5	46.0	46.0
Acid Number (AN)	mg KOH/g	**0.66**	0.71	0.79	0.74

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**---**	5565	2483	61333
Particles >6µm		**---**	878	845	27201
Particles >14µm		**---**	12	60	1705
ISO 4406:1999 (c)		**---**	20/17/11	18/17/13	23/22/18
Silicon	ppm	**6**	6	7	6
Sodium	ppm	**1**	0	1	2
Potassium	ppm	**<1**	0	0	0

WEAR METALS

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

ADDITIVES

Calcium	ppm	**109**	124	103	94
Magnesium	ppm	**75**	76	112	94
Zinc	ppm	**713**	689	712	548
Phosphorus	ppm	**580**	556	531	501
Barium	ppm	**0**	<1	0	0
Boron	ppm	**<1**	<1	0	0

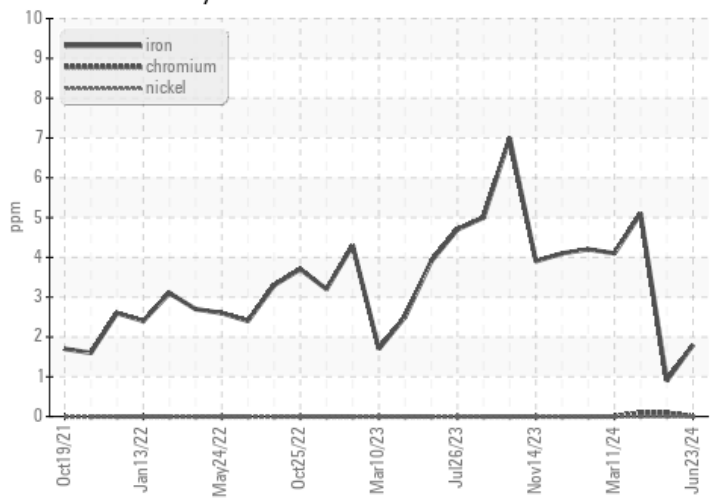
Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

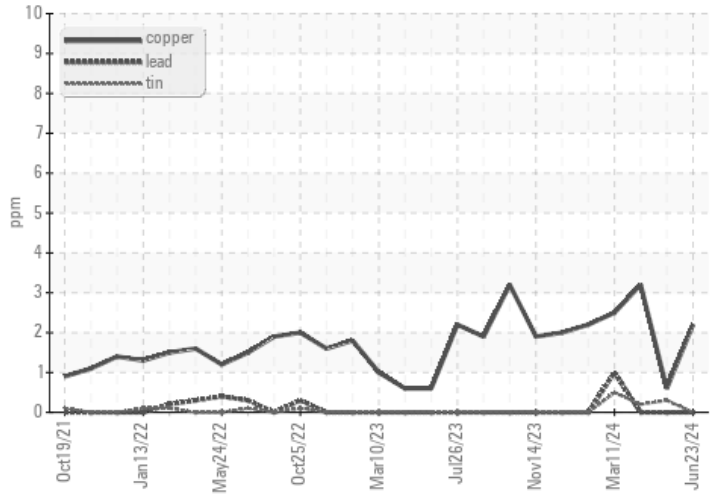
Depot: SAIBIR
Unique No: 11099329
Signed: Don Baldridge
Report Date: 27 Jun 2024

GRAPHS

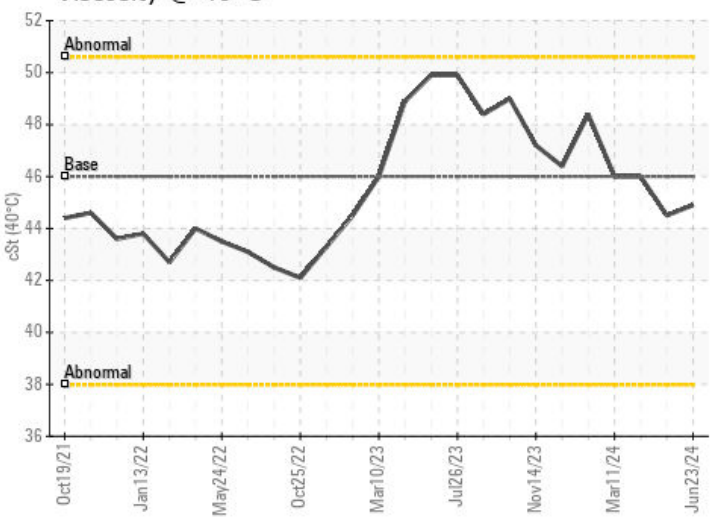
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number