



CONSTRUCTION EQUIPMENT

SW1020060 SUNLAND VOLVO DD140C 290068 - HYDRAULIC SYSTEM



Sample No: VCP406834
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SW1020060 SUNLAND



SAMPLE INFORMATION

Sample Number	VCP406834	VCP344684	VCP316150	VCP281533
Sample Date	11 Jul 2023	15 Dec 2021	10 Jun 2021	02 Jun 2020
Machine Hours	4437	1481	1770	512
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	SEVERE

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OIL CONDITION

Visc @ 40°C	cSt	42.5	44.0	44.1	44.5
Acid Number (AN)	mg KOH/g	0.42	0.179	0.19	0.078



CONTAMINATION

Particles >4µm	3681	15715	5991	---	
Particles >6µm	1213	3864	1230	---	
Particles >14µm	142	166	432	---	
ISO 4406:1999 (c)	19/17/14	21/19/15	20/17/16	---	
Silicon	ppm	<1	<1	<1	1
Sodium	ppm	<1	2	2	1
Potassium	ppm	0	<1	<1	1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	6	4	2	2
Copper	ppm	7	3	2	10
Lead	ppm	<1	4	3	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	1	<1	0	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	117	121	116	128
Magnesium	ppm	11	0	<1	<1
Zinc	ppm	384	54	44	29
Phosphorus	ppm	403	415	405	448
Barium	ppm	0	0	0	<1
Boron	ppm	0	<1	1	<1

Depot: VOLVO6174
Unique No: 10562571
Signed: Wes Davis
Report Date: 19 Jul 2023

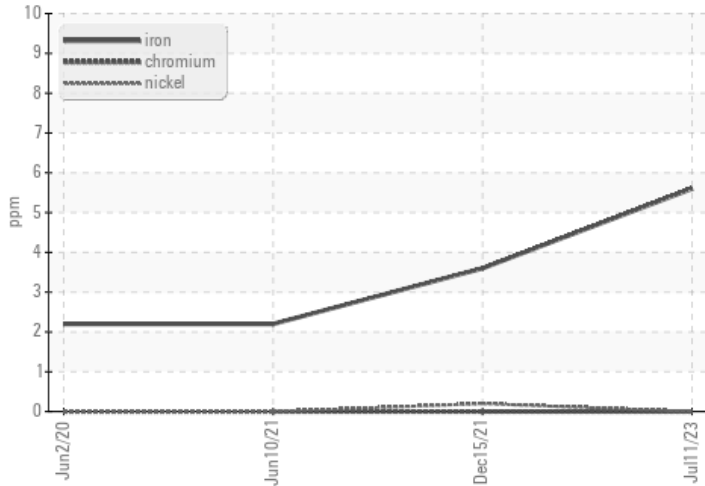


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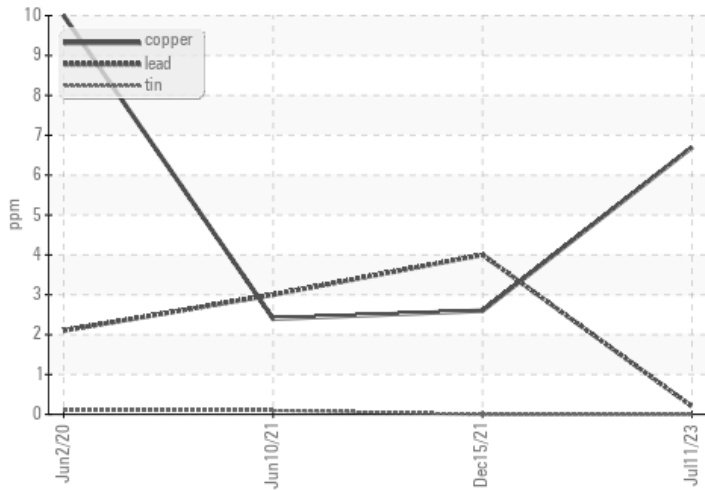


GRAPHS

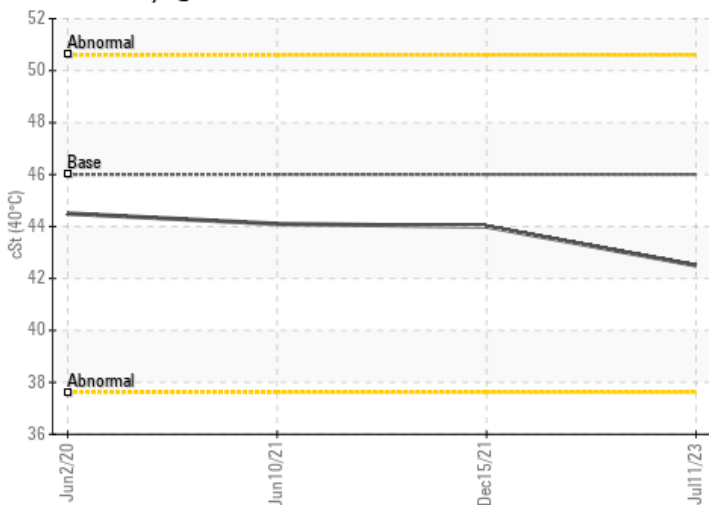
Ferrous Alloys



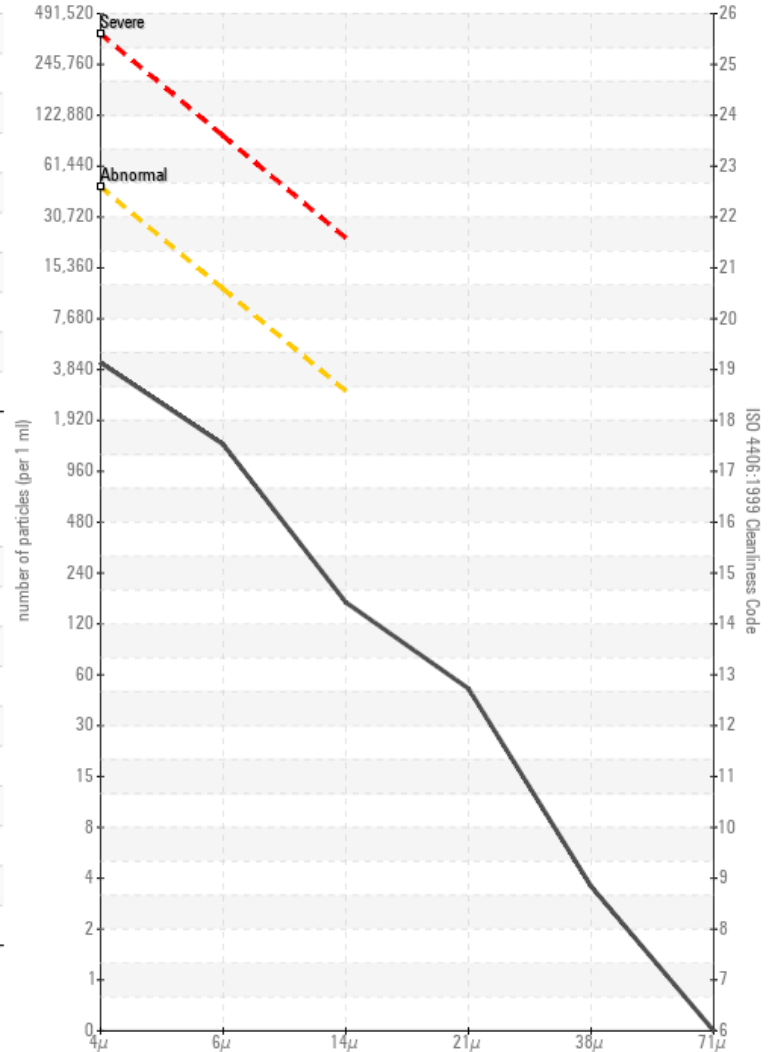
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

