



CONSTRUCTION EQUIPMENT

SW1035497 MGC VOLVO ECR88D 212999 - HYDRAULIC SYSTEM



Sample No: VCP442949
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW1035497 MGC



SAMPLE INFORMATION

Sample Number	VCP442949	VCP369700	VCP324721	VCP253161
Sample Date	04 Jun 2024	14 Nov 2022	06 Jul 2021	16 Jul 2019
Machine Hours	3167	2588	2067	1006
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.7	42.9	43.6	43.6
Acid Number (AN)	mg KOH/g	0.17	0.39	0.444	0.514



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		13714	28089	8311	15082
Particles >6µm		1132	3090	1560	3342
Particles >14µm		21	129	130	468
ISO 4406:1999 (c)		21/17/12	22/19/14	20/18/14	21/19/16
Silicon	ppm	4	2	2	3
Sodium	ppm	1	<1	<1	<1
Potassium	ppm	0	0	0	<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	4	3	3	3
Copper	ppm	10	8	14	8
Lead	ppm	0	0	1	1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	<1	1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	119	89	93	98
Magnesium	ppm	5	6	<1	<1
Zinc	ppm	438	476	475	474
Phosphorus	ppm	351	380	368	374
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	0	<1

Depot: VOLVO6174
Unique No: 11073879
Signed: Wes Davis
Report Date: 13 Jun 2024

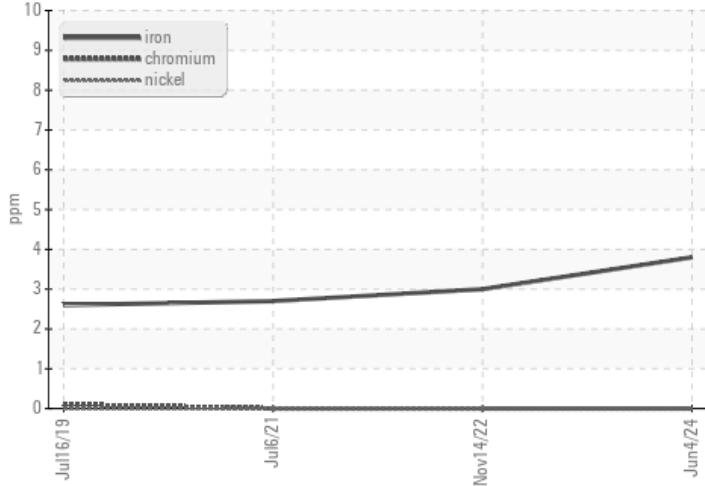


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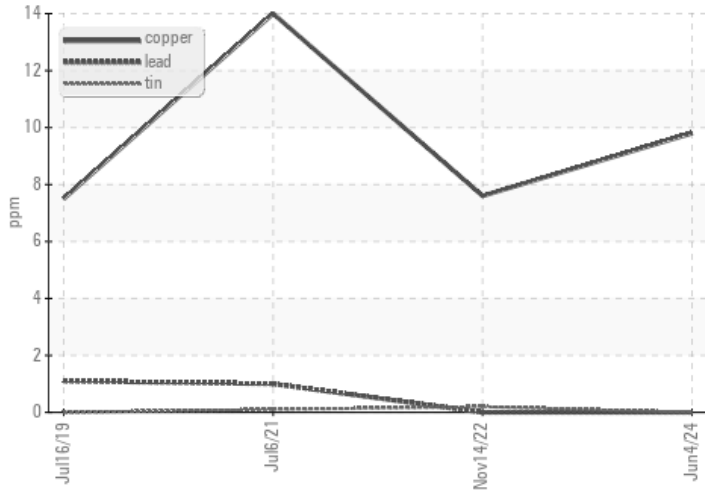


VOLVO GRAPHS

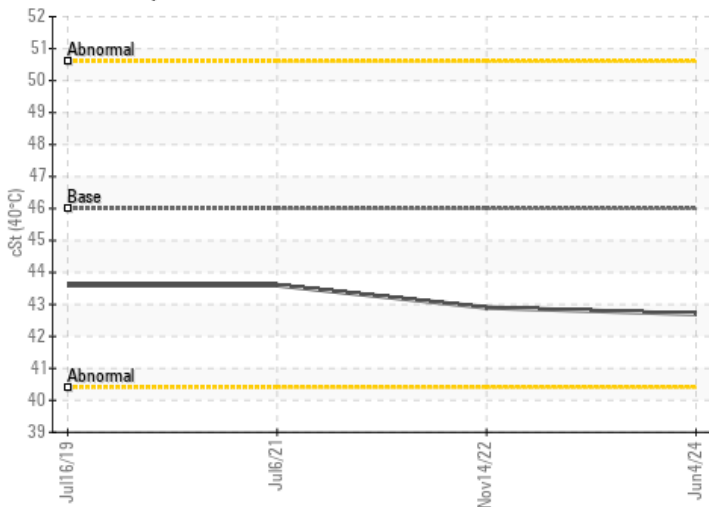
Ferrous Alloys



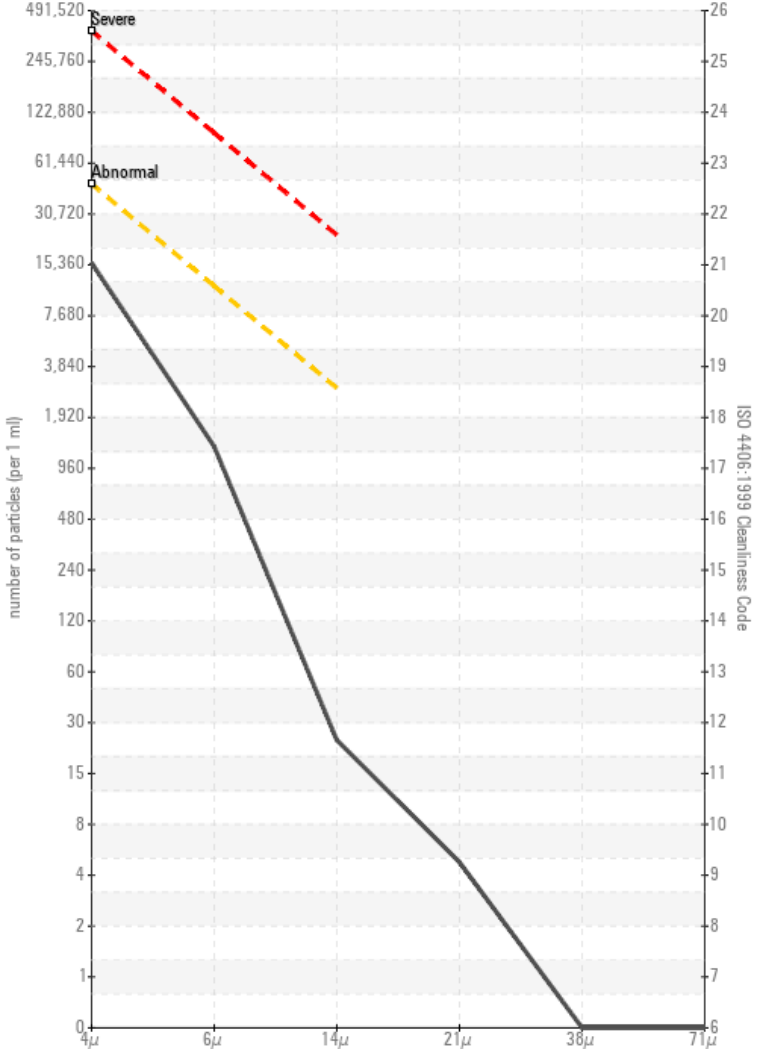
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

