



CONSTRUCTION EQUIPMENT

A12633 VOLVO A40G 352005 - HYDRAULIC SYSTEM



Sample No: VCP446405
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12633



SAMPLE INFORMATION

Sample Number	VCP446405	VCP339281	VCP367402	VCB0000041
Sample Date	06 May 2024	29 Aug 2023	28 Nov 2022	23 Feb 2022
Machine Hours	3670	3205	2725	2080
Oil Hours	2000	3205	0	2080
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Oil Added
Sample Status	NORMAL	SEVERE	NORMAL	NORMAL

DYER QUARRY
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BIRDSBORO, PA
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OIL CONDITION

Visc @ 40°C	cSt	40.1	40.5	40.2	40.4
Acid Number (AN)	mg KOH/g	0.35	0.31	0.35	0.35

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		14120	107945	3703	13547
Particles >6µm		3397	39248	897	2527
Particles >14µm		137	1471	64	104
ISO 4406:1999 (c)		21/19/14	24/22/18	19/17/13	21/19/14
Silicon	ppm	7	8	6	6
Sodium	ppm	3	1	2	2
Potassium	ppm	<1	0	0	0

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	9	9	8	5
Copper	ppm	4	4	4	3
Lead	ppm	0	3	3	2
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	1	1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	132	59	54	63
Magnesium	ppm	3	2	3	0
Zinc	ppm	420	430	431	405
Phosphorus	ppm	329	334	355	356
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: DYEBIR
Unique No: 11032595
Signed: Wes Davis
Report Date: 17 May 2024

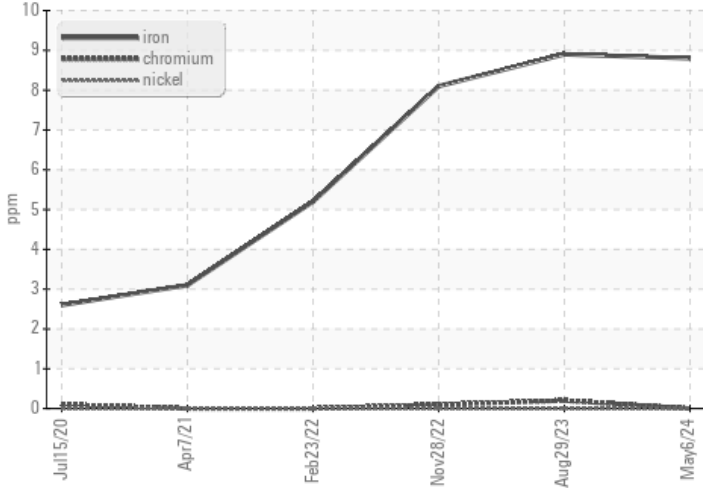


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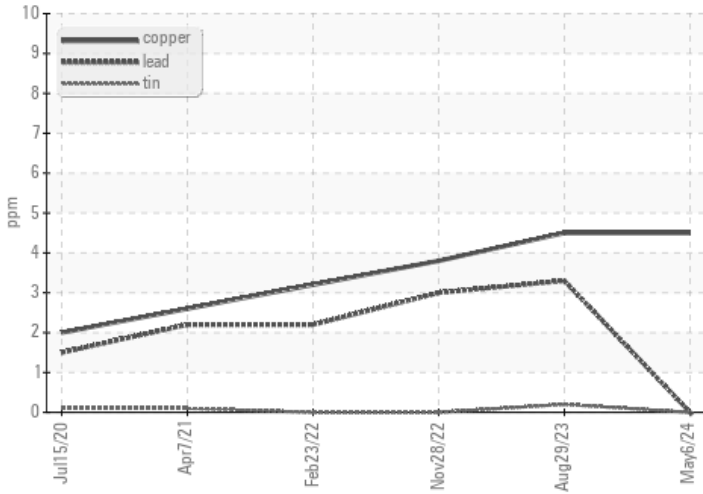


VOLVO GRAPHS

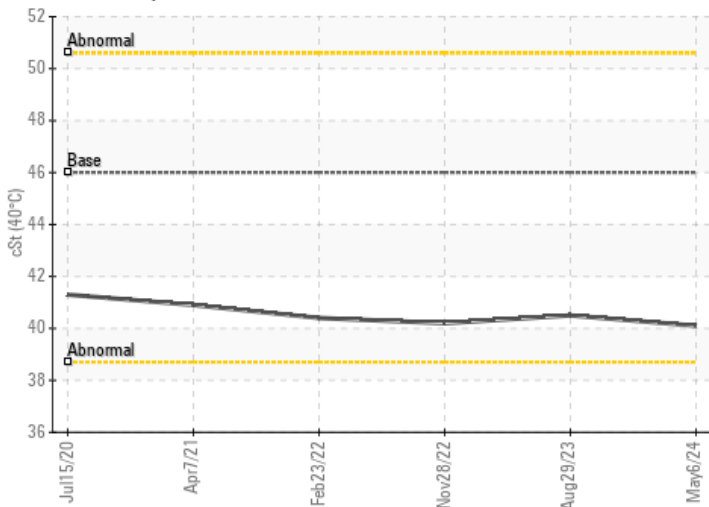
Ferrous Alloys



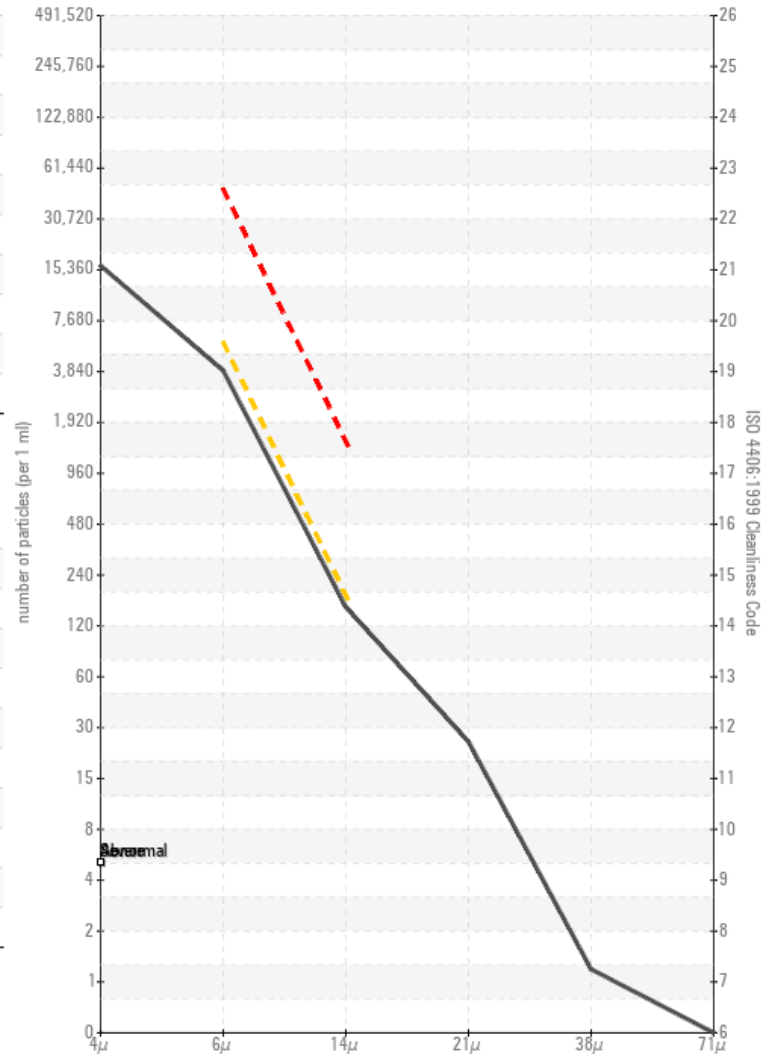
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

