



CONSTRUCTION EQUIPMENT

VOLVO A40G 352787 - HYDRAULIC SYSTEM



Sample No: VCP441518
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP441518	VCP425161	VCP373207	VCP345745
Sample Date	09 Feb 2024	25 Aug 2023	30 Jun 2022	20 Jan 2022
Machine Hours	5200	4246	1962	940
Oil Hours	0	4246	1962	940
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	45.0	45.2	45.5	45.2
Acid Number (AN)	mg KOH/g	0.34	0.28	0.37	0.37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2335	416	1376	5908
Particles >6µm		600	87	203	1280
Particles >14µm		32	9	14	136
ISO 4406:1999 (c)		18/16/12	16/14/10	18/15/11	20/17/14
Silicon	ppm	4	6	5	5
Sodium	ppm	1	4	0	0
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	7	9	5	4
Copper	ppm	<1	2	2	1
Lead	ppm	2	3	2	2
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	74	68	60	59
Magnesium	ppm	2	2	<1	0
Zinc	ppm	482	437	447	442
Phosphorus	ppm	365	305	353	335
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: RIPTAM
Unique No: 11018630
Signed: Wes Davis
Report Date: 09 May 2024

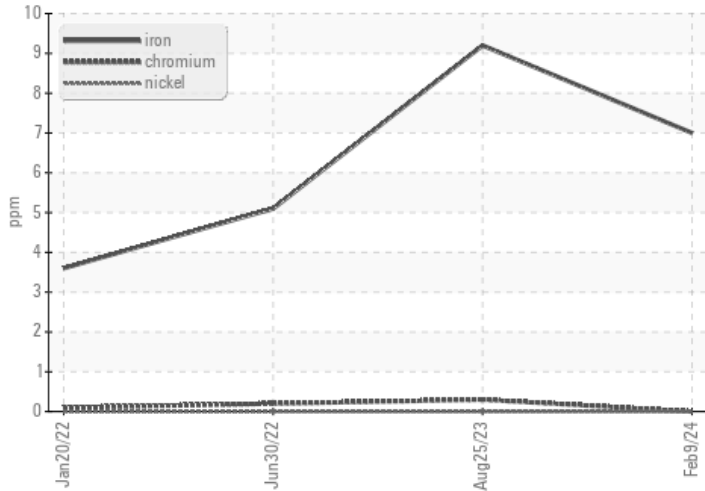


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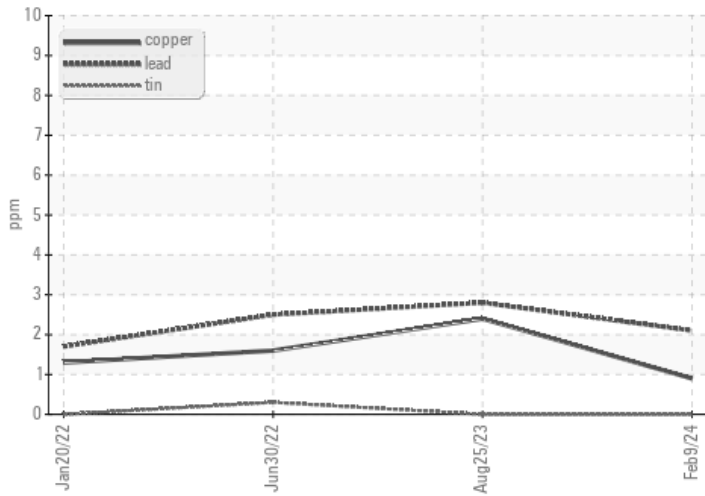


GRAPHS

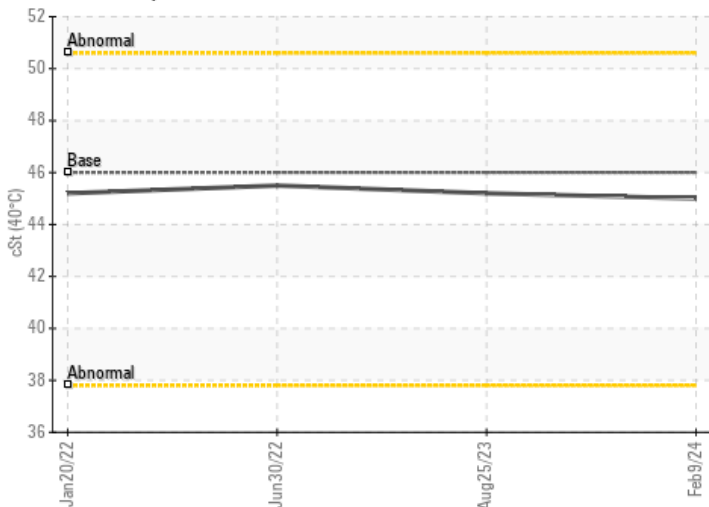
Ferrous Alloys



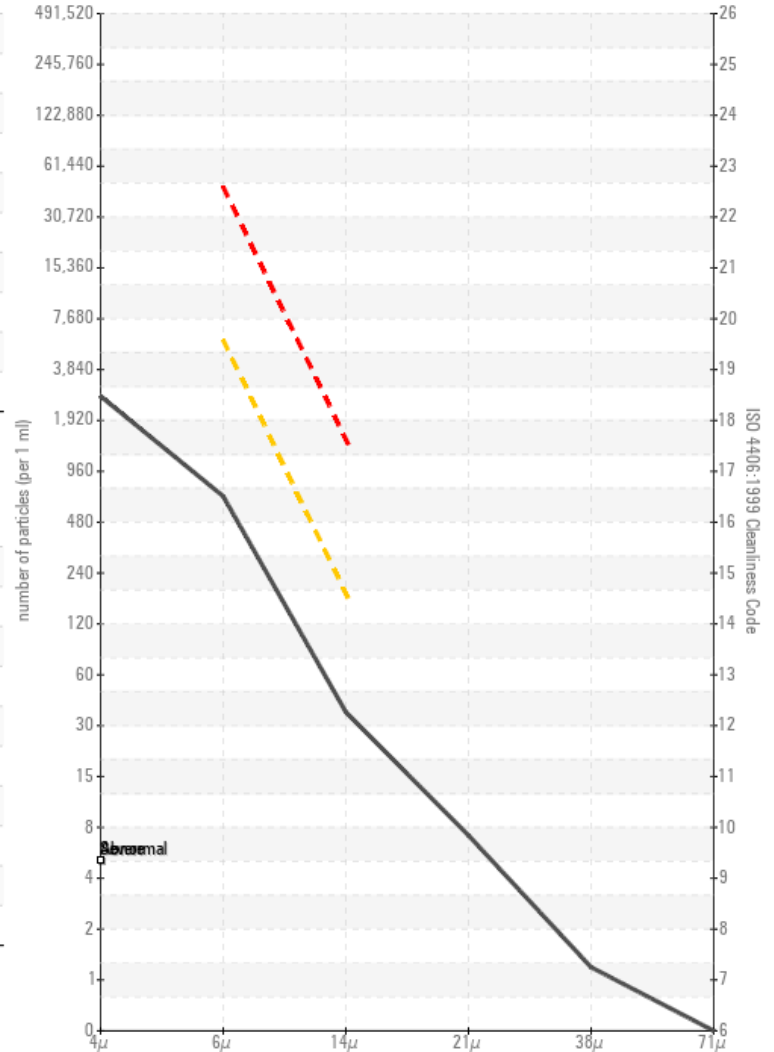
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

