



CONSTRUCTION EQUIPMENT

662078 VOLVO A30F 82303 - HYDRAULIC SYSTEM



Sample No: VCP432321
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 662078



SAMPLE INFORMATION

Sample Number	VCP432321	VCP390281	VCP266224	VCP177530
Sample Date	02 Feb 2024	28 Dec 2022	25 Apr 2020	01 Apr 2016
Machine Hours	12787	11500	10182	4143
Oil Hours	4000	1500	2000	0
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ATTENTION	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	51.9	42.2	48.3	41.92
Acid Number (AN)	mg KOH/g	0.42	0.32	0.303	1.33



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2280	49819	5612	1146
Particles >6µm		257	8653	627	624
Particles >14µm		21	267	32	106
ISO 4406:1999 (c)		18/15/12	23/20/15	20/16/12	17/16/14
Silicon	ppm	6	5	4	11
Sodium	ppm	2	2	4	3
Potassium	ppm	0	0	0	3

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	9	8	5
Copper	ppm	3	5	3	6
Lead	ppm	1	3	2	6
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	1	<1	<1
Chromium	ppm	0	2	<1	<1
Molybdenum	ppm	3	<1	<1	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	107	101	181	1061
Magnesium	ppm	16	18	4	5
Zinc	ppm	475	397	480	670
Phosphorus	ppm	376	324	392	612
Barium	ppm	0	0	0	0
Boron	ppm	6	<1	2	2

Depot: RIPTAM
Unique No: 10886963
Signed: Don Baldrige
Report Date: 21 Feb 2024

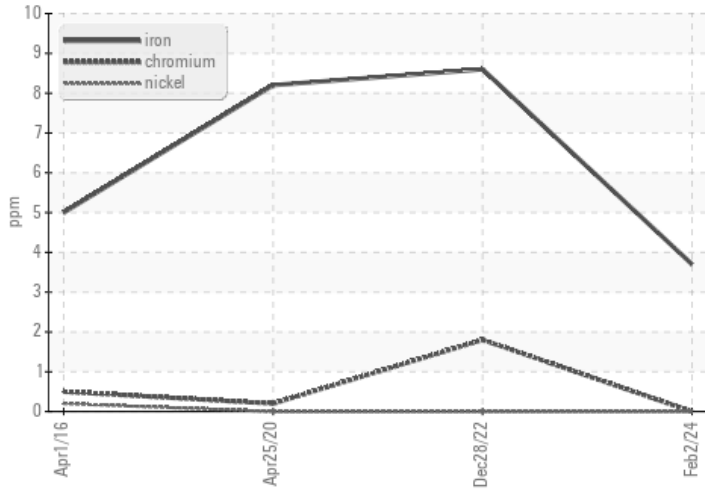


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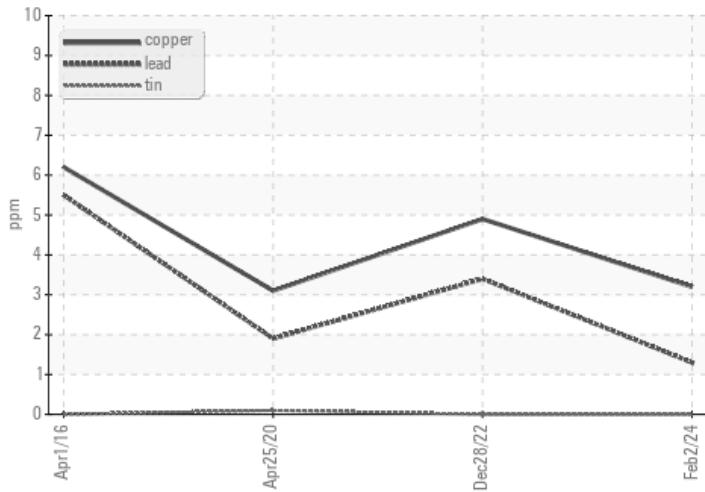


GRAPHS

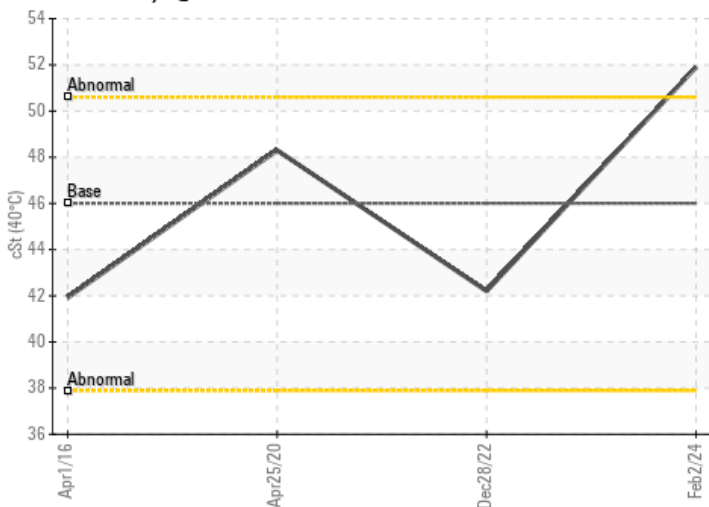
Ferrous Alloys



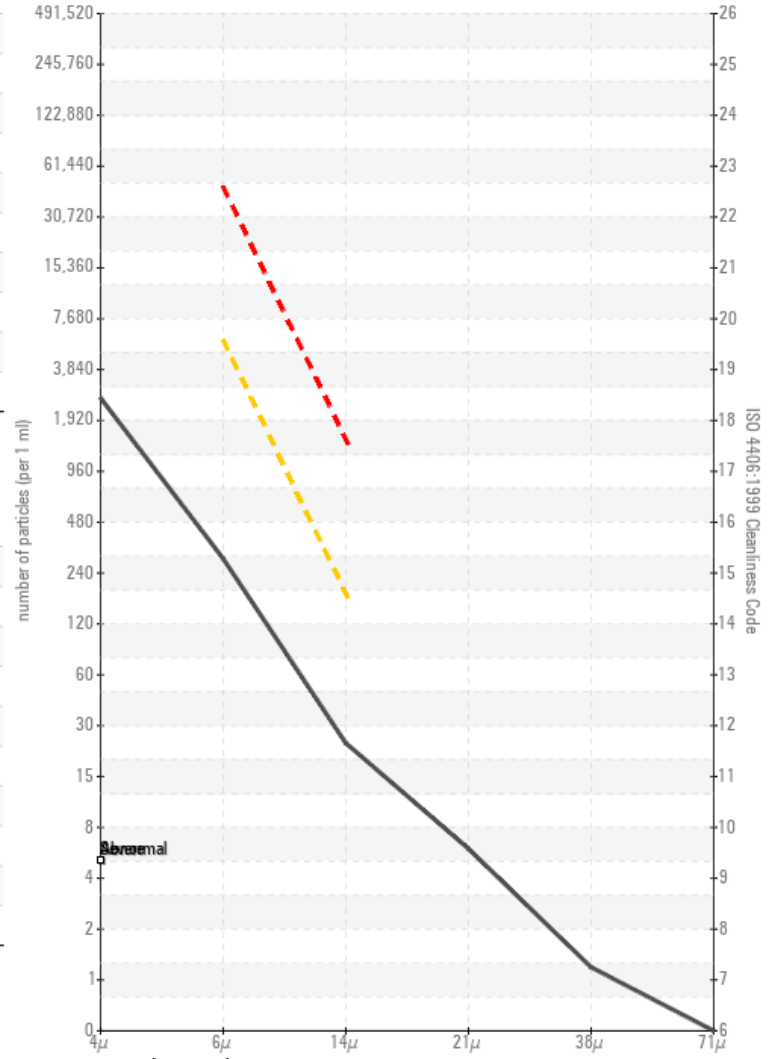
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

