



CONSTRUCTION EQUIPMENT

658711 VOLVO A30G 742060 - HYDRAULIC SYSTEM



Sample No: VCP440811
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 658711



SAMPLE INFORMATION

Sample Number	VCP440811	VCP398959	VCP377368	VCP332919
Sample Date	06 Jan 2024	13 Dec 2022	21 Jun 2022	04 Feb 2022
Machine Hours	9195	8120	7206	6292
Oil Hours	1000	4000	1500	2000
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	ABNORMAL	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	50.6	53.9	46.4	46.5
Acid Number (AN)	mg KOH/g	0.28	0.33	0.42	0.37

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6222	1990	17482	6310
Particles >6µm		687	177	5383	1413
Particles >14µm		44	13	712	120
ISO 4406:1999 (c)		20/17/13	18/15/11	21/20/17	20/18/14
Silicon	ppm	1	2	4	3
Sodium	ppm	0	0	<1	<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	0	11	19	16
Copper	ppm	4	6	8	7
Lead	ppm	<1	1	3	3
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	0	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	2	3	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	80	103	116	108
Magnesium	ppm	8	11	11	11
Zinc	ppm	399	444	464	474
Phosphorus	ppm	309	342	355	358
Barium	ppm	0	0	0	0
Boron	ppm	0	0	3	2

Depot: RIPTAM
Unique No: 10861818
Signed: Wes Davis
Report Date: 06 Feb 2024

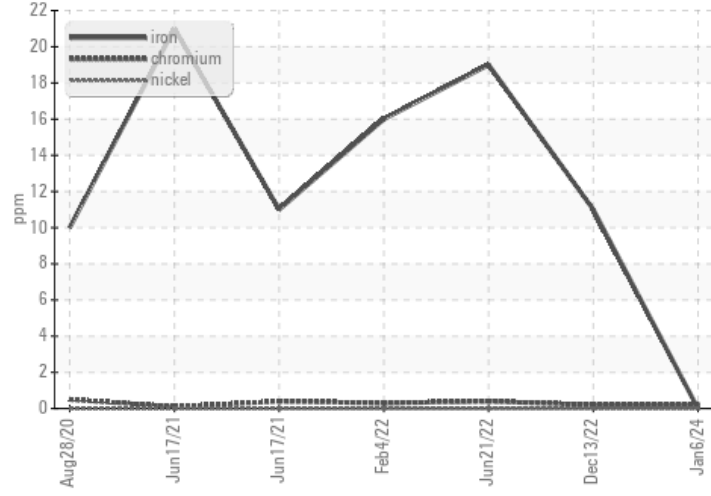


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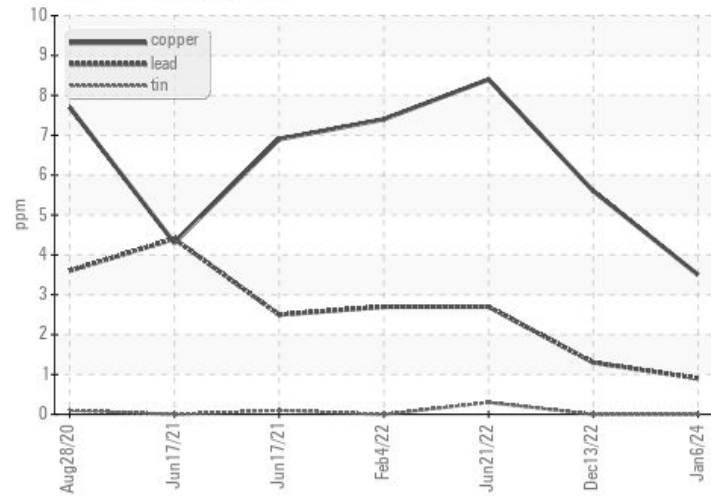


GRAPHS

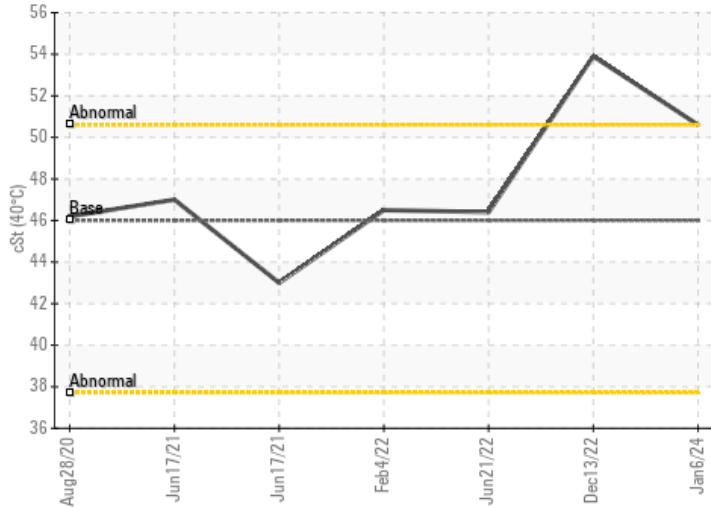
Ferrous Alloys



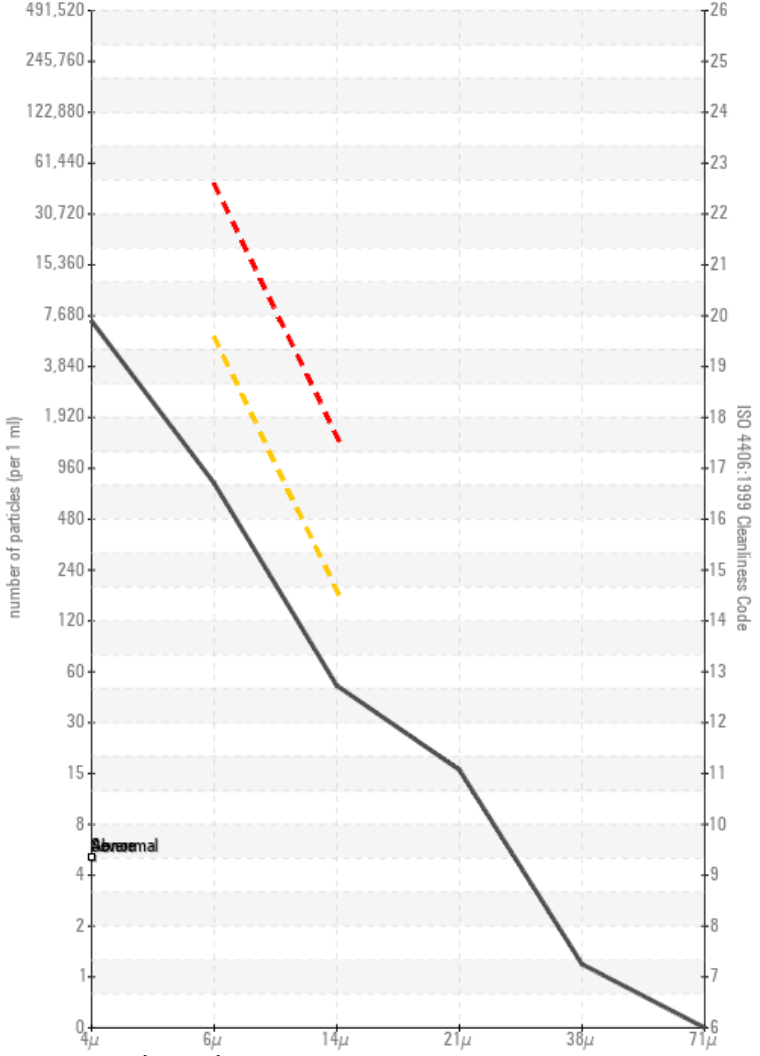
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

