



CONSTRUCTION EQUIPMENT

688604 VOLVO A30G 752326 - HYDRAULIC SYSTEM



Sample No: VCP445574
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 688604



SAMPLE INFORMATION

Sample Number	VCP445574	VCP393812	VCP376252	VCP357434
Sample Date	04 Apr 2024	08 Mar 2023	12 Aug 2022	18 Mar 2022
Machine Hours	5120	3043	2015	1147
Oil Hours	1000	1500	500	1147
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	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	46.8	44.2	44.9	45.5
Acid Number (AN)	mg KOH/g	0.35	0.40	0.08	0.42

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		8535	33883	36923	5537
Particles >6µm		1724	12236	11839	1482
Particles >14µm		108	1086	1247	82
ISO 4406:1999 (c)		20/18/14	22/21/17	22/21/17	20/18/14
Silicon	ppm	3	5	3	3
Sodium	ppm	<1	3	1	2
Potassium	ppm	2	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	8	9	8	6
Copper	ppm	4	9	9	6
Lead	ppm	2	3	4	3
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	1	0	<1	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	<1	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	101	84	111	64
Magnesium	ppm	6	8	3	<1
Zinc	ppm	470	433	438	412
Phosphorus	ppm	378	342	348	336
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	1

Depot: RIPTAM
Unique No: 11031422
Signed: Wes Davis
Report Date: 16 May 2024

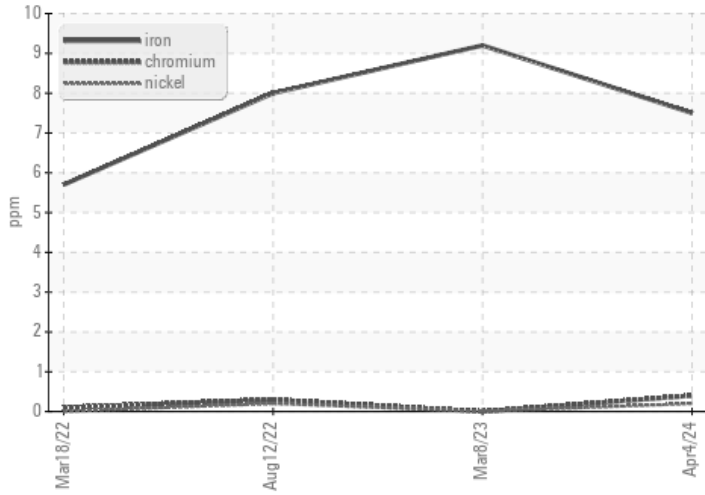


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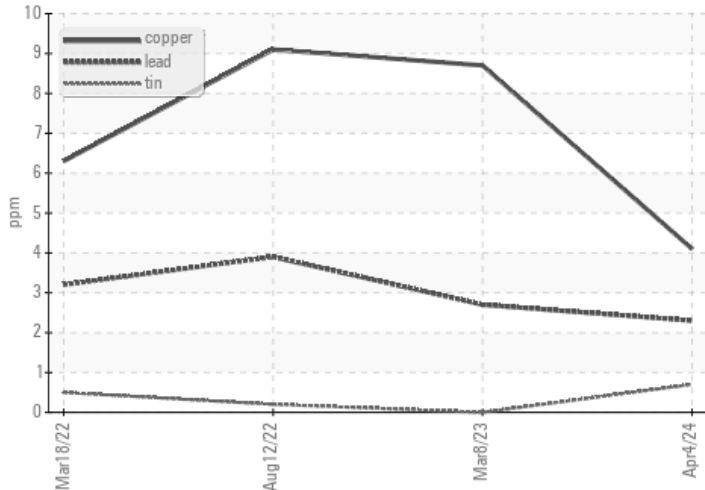


GRAPHS

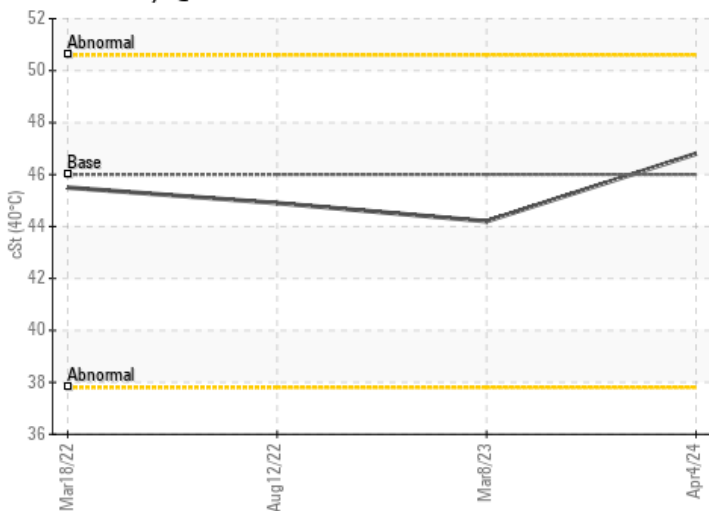
Ferrous Alloys



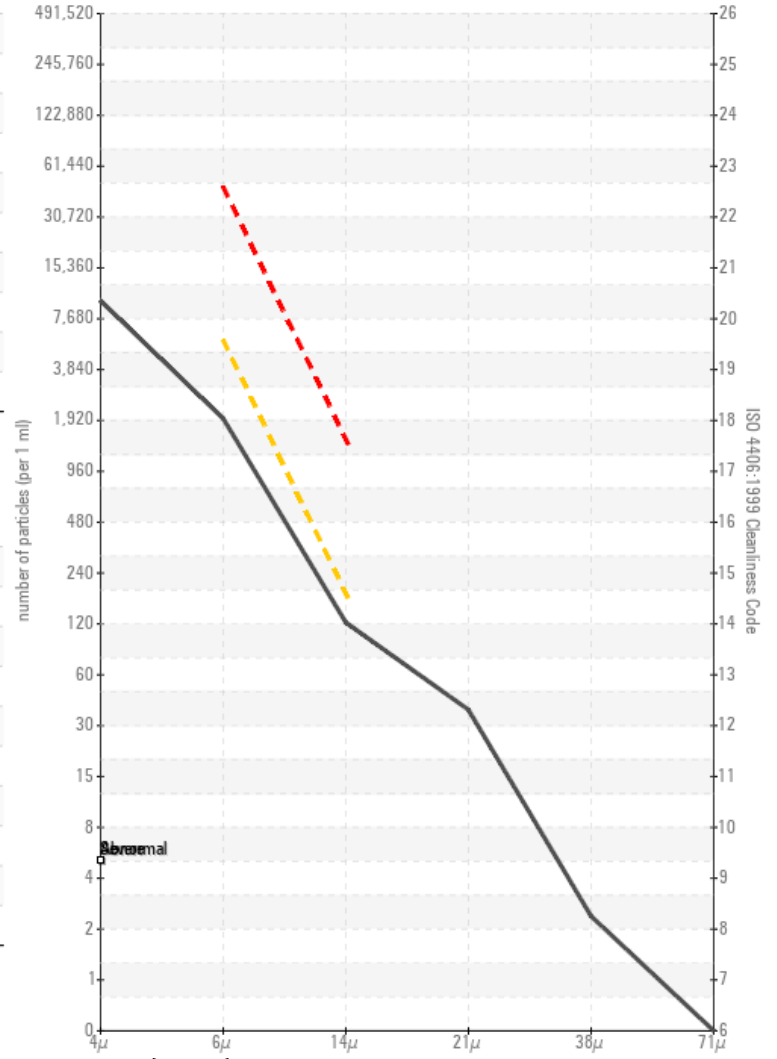
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

