



CONSTRUCTION EQUIPMENT

125204 VOLVO A40G 342574 - HYDRAULIC SYSTEM



Sample No: VCP368439
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 125204



SAMPLE INFORMATION

Sample Number	VCP368439	VCP326604	VCP305225	VCP279496
Sample Date	06 Dec 2022	24 Sep 2021	25 Feb 2021	13 Oct 2020
Machine Hours	5696	4288	3528	2953
Oil Hours	0	4288	500	1000
Oil Changed	N/A	Changed	Not Changd	Not Changd
Sample Status	ATTENTION	NORMAL	ABNORMAL	ABNORMAL

ALTA EQUIPMENT

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 SYRACUSE, NY
 US 13206
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OIL CONDITION

Visc @ 40°C	cSt	42.4	40.6	40.9	41.0
Acid Number (AN)	mg KOH/g	0.97	0.347	0.380	0.435



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7441	2944	14685	---
Particles >6µm		2550	610	4360	---
Particles >14µm		189	32	393	---
ISO 4406:1999 (c)		20/19/15	19/16/12	21/19/16	---
Silicon	ppm	7	9	9	9
Sodium	ppm	2	<1	3	<1
Potassium	ppm	0	<1	<1	<1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	5	9	8	6
Copper	ppm	2	4	4	3
Lead	ppm	1	2	2	3
Tin	ppm	0	0	0	0
Aluminum	ppm	2	3	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	<1	<1	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1017	131	62	57
Magnesium	ppm	15	4	2	2
Zinc	ppm	671	453	419	418
Phosphorus	ppm	605	329	345	329
Barium	ppm	0	0	0	0
Boron	ppm	<1	1	3	1

Depot: VOLV00142
Unique No: 10254440
Signed: Don Baldrige
Report Date: 14 Dec 2022

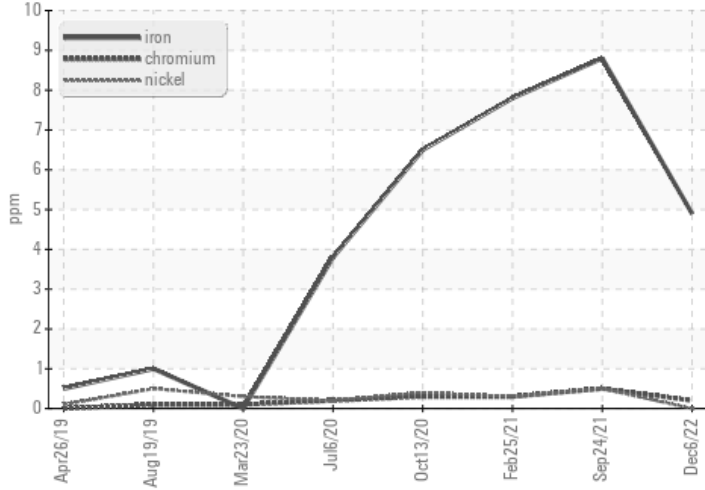


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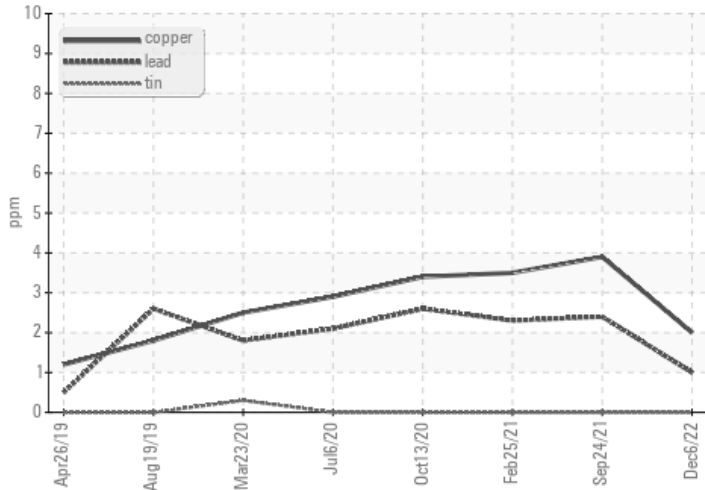


GRAPHS

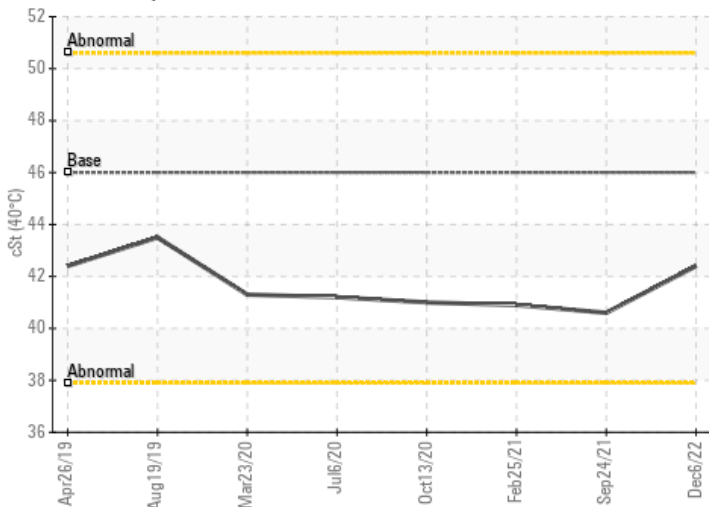
Ferrous Alloys



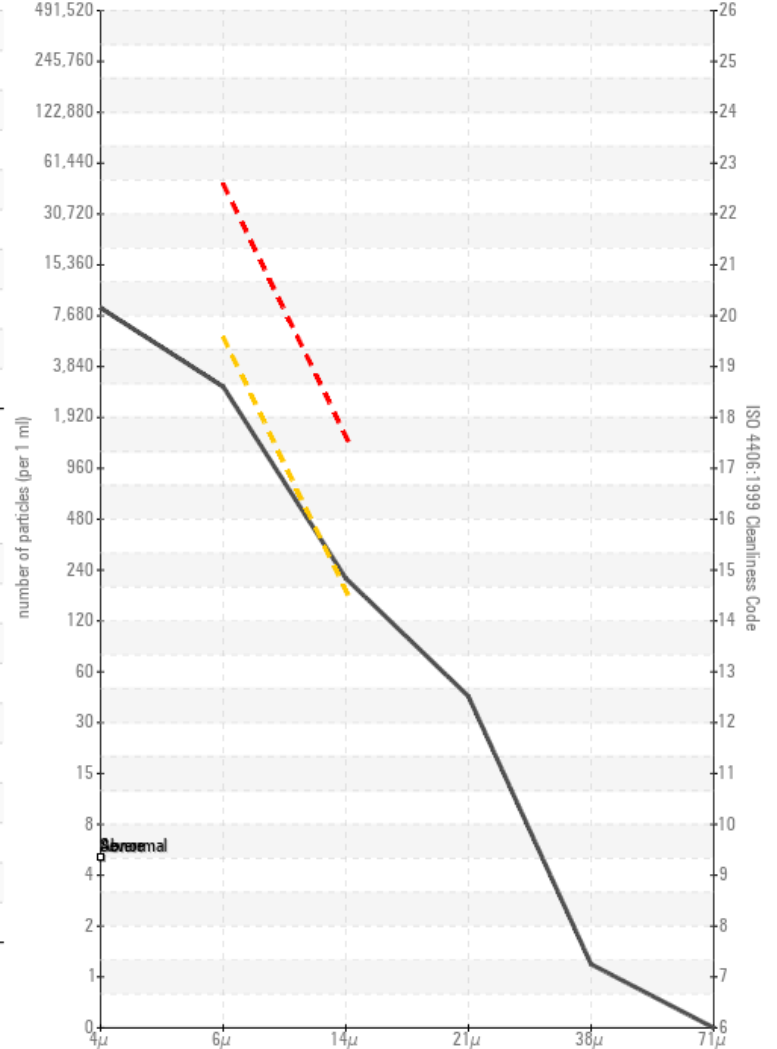
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

