



CONSTRUCTION EQUIPMENT

VOLVO A40G 352410 - HYDRAULIC SYSTEM



Sample No: VCP412147
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP412147	VCP335668	VCP291952	VCP286136
Sample Date	09 Aug 2023	30 Sep 2021	23 Dec 2020	04 Sep 2020
Machine Hours	3913	2118	1113	14134
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	ABNORMAL	ATTENTION

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302



OIL CONDITION

Visc @ 40°C	cSt	44.6	42.0	41.4	42.2
Acid Number (AN)	mg KOH/g	0.37	0.378	0.478	0.529



CONTAMINATION

Particles >4µm		2765	10934	5780	5183
Particles >6µm		404	2372	2249	1725
Particles >14µm		16	137	268	151
ISO 4406:1999 (c)		19/16/11	21/18/14	20/18/15	20/18/14
Silicon	ppm	16	6	2	4
Sodium	ppm	0	2	<1	0
Potassium	ppm	1	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	13	6	3	1
Copper	ppm	5	3	2	2
Lead	ppm	4	3	2	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	6	4	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	59	51	47	48
Magnesium	ppm	3	2	<1	<1
Zinc	ppm	409	452	415	413
Phosphorus	ppm	309	324	323	313
Barium	ppm	<1	<1	0	0
Boron	ppm	0	1	5	1

Depot: VOLVO0090
Unique No: 10605999
Signed: Don Baldrige
Report Date: 17 Aug 2023

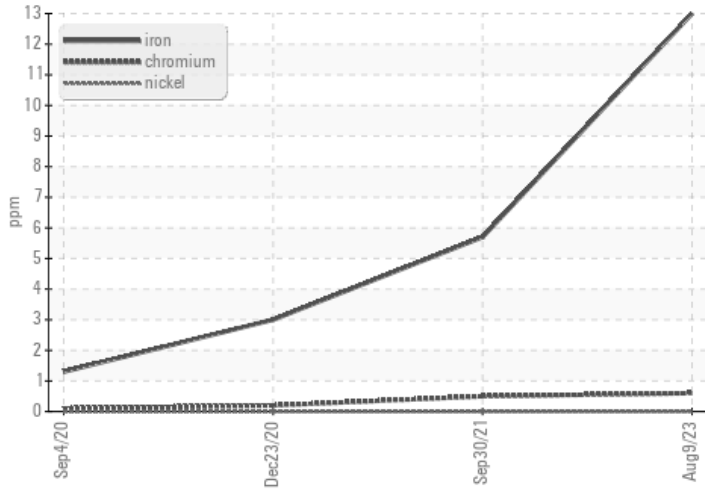


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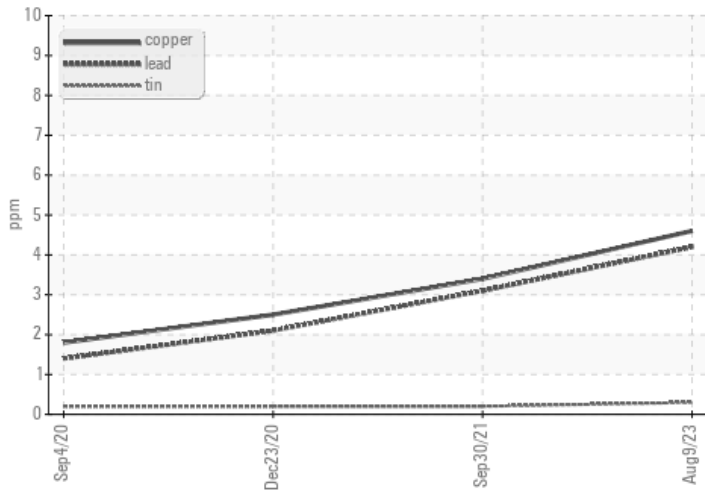


GRAPHS

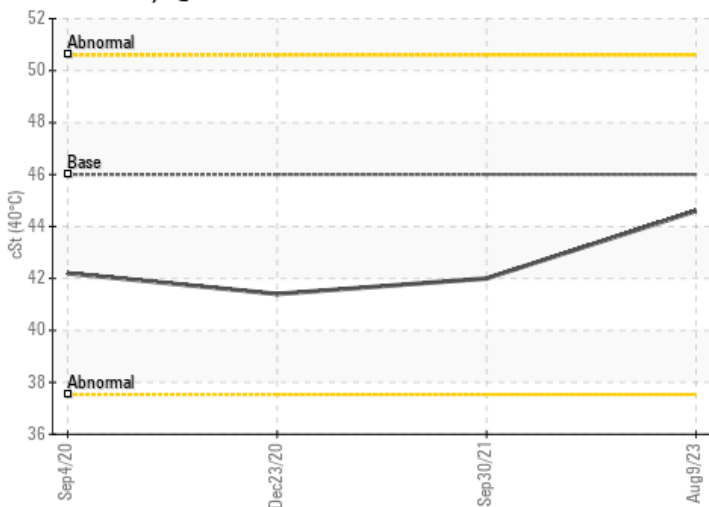
Ferrous Alloys



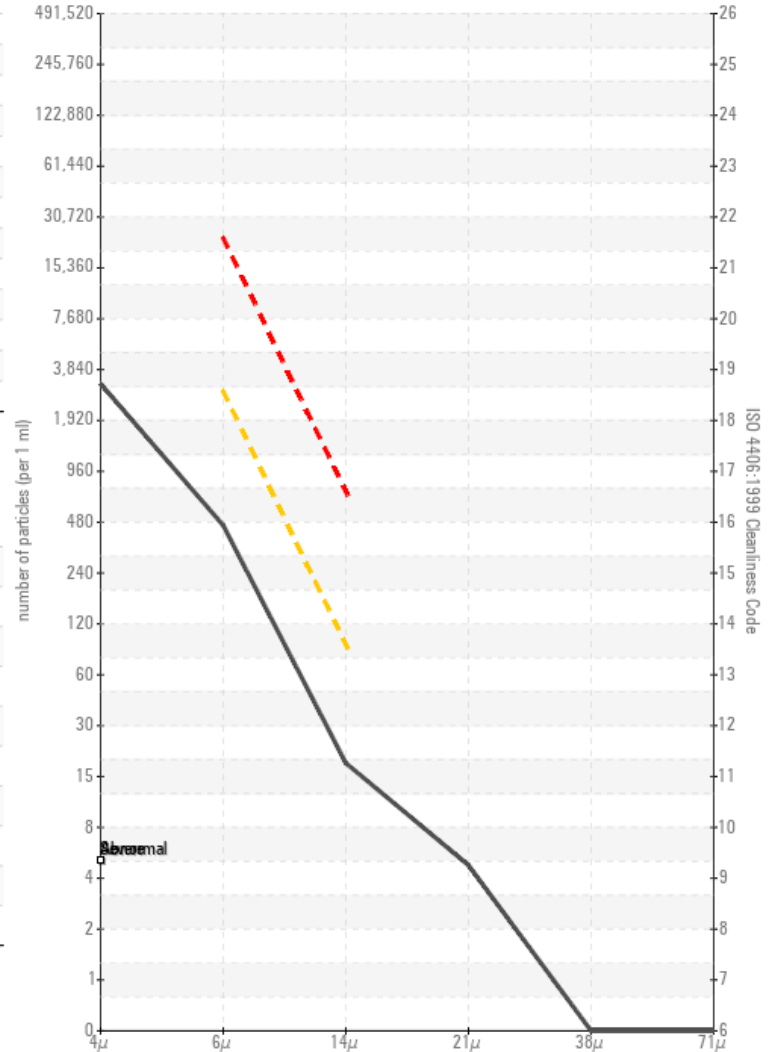
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

