



CONSTRUCTION EQUIPMENT

D12689 WM A1 VOLVO L70H 624717 - HYDRAULIC SYSTEM



Sample No: VCP418993
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: D12689 WM A1



SAMPLE INFORMATION

Sample Number	VCP418993	VCP418969	VCP381281	VCP419532
Sample Date	08 Sep 2023	04 Aug 2023	28 Jun 2023	24 May 2023
Machine Hours	2966	2770	2570	2349
Oil Hours	2966	2770	2570	2349
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	SEVERE	SEVERE	ABNORMAL

ARING EQUIPMENT COMPANY INC - MAIN (MILWAUKEE)
 13001 W SILVERE SPRING DR
 BUTLER, WI
 US 53007
 Contact: GLENN OTTENBACHER
 gottenbacher@aring.com
 T: (262)282-0715
 F: (262)781-5053

OIL CONDITION

Visc @ 40°C	cSt	41.8	41.5	41.9	42.0
Acid Number (AN)	mg KOH/g	0.40	0.47	0.38	0.42

CONTAMINATION

Particles >4µm	1577	35268	12292	23525	
Particles >6µm	449	11707	4475	7891	
Particles >14µm	45	941	1011	707	
ISO 4406:1999 (c)	18/16/13	22/21/17	21/19/17	22/20/17	
Silicon	ppm	4	4	3	3
Sodium	ppm	2	0	2	2
Potassium	ppm	0	<1	1	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	5	6	5	5
Copper	ppm	3	3	2	2
Lead	ppm	<1	1	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	96	105	84	81
Magnesium	ppm	2	5	4	2
Zinc	ppm	459	455	503	444
Phosphorus	ppm	372	346	380	349
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0069
Unique No: 10647280
Signed: Wes Davis
Report Date: 16 Sep 2023

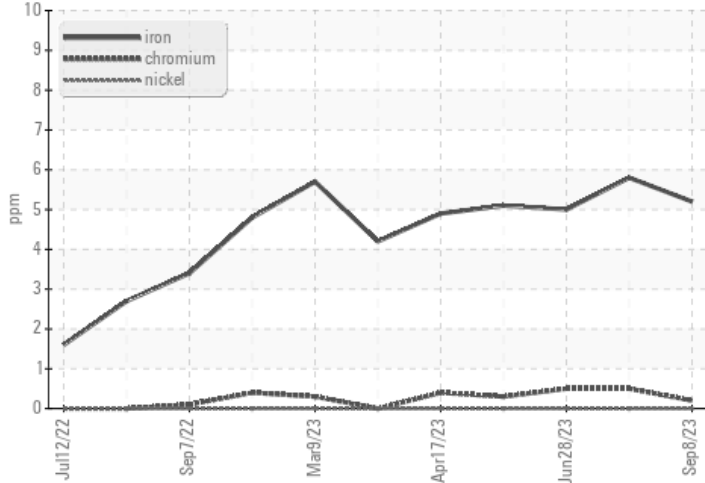


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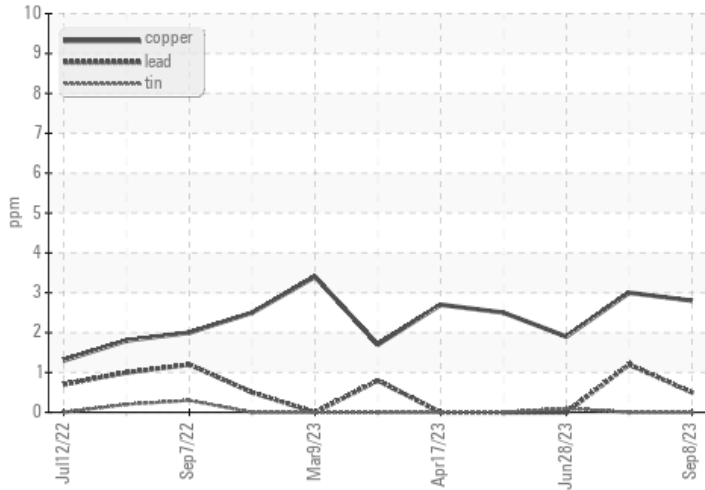


GRAPHS

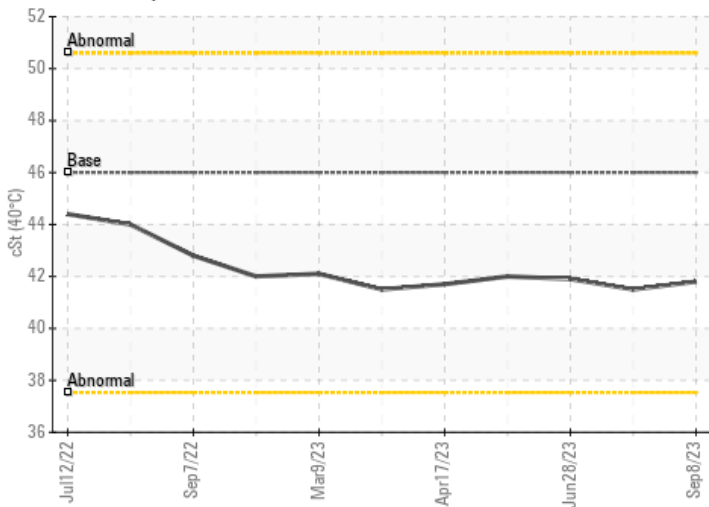
Ferrous Alloys



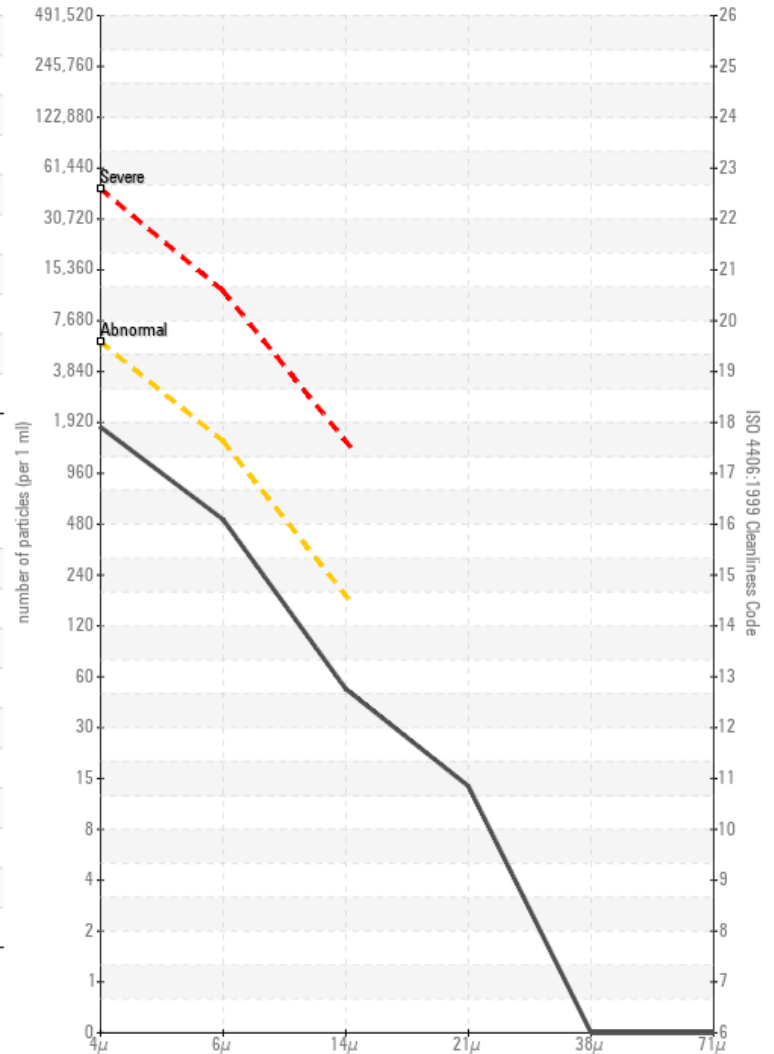
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

