



CONSTRUCTION EQUIPMENT

SPM689362 VOLVO L90G 617626 - HYDRAULIC SYSTEM



Sample No: VCP437357
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM689362



SAMPLE INFORMATION

Sample Number	VCP437357	VCP355369	VCP342074	VCP336893
Sample Date	05 Apr 2024	12 Jul 2022	17 Mar 2022	29 Nov 2021
Machine Hours	11322	10540	10061	9724
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

IAA - INSURANCE AUTO AUCTIONS - AURORA
 280 E SULLIVAN
 AURORA, IL
 US 60505
 Contact: Service Manager

OIL CONDITION

Visc @ 40°C	cSt	44.7	44.6	44.6	45.0
Acid Number (AN)	mg KOH/g	0.49	0.55	0.50	0.519

T:
F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		925	4526	5065	1418
Particles >6µm		40	1139	1516	310
Particles >14µm		3	122	150	22
ISO 4406:1999 (c)		17/12/9	19/17/14	20/18/14	18/15/12
Silicon	ppm	3	2	4	4
Sodium	ppm	3	2	4	2
Potassium	ppm	2	0	0	<1

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	5	2	5	5
Copper	ppm	3	1	3	3
Lead	ppm	3	<1	1	1
Tin	ppm	1	1	<1	0
Aluminum	ppm	1	2	<1	0
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	2	<1	1	1
Nickel	ppm	<1	1	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	576	434	1135	1033
Magnesium	ppm	11	8	20	18
Zinc	ppm	1063	781	1117	1024
Phosphorus	ppm	957	603	931	867
Barium	ppm	0	0	0	0
Boron	ppm	14	15	30	25

Depot: INSAUR
Unique No: 10977335
Signed: Don Baldrige
Report Date: 16 Apr 2024

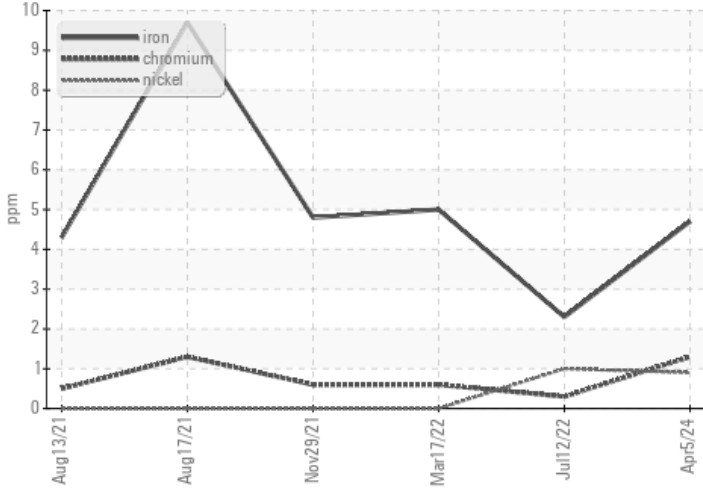


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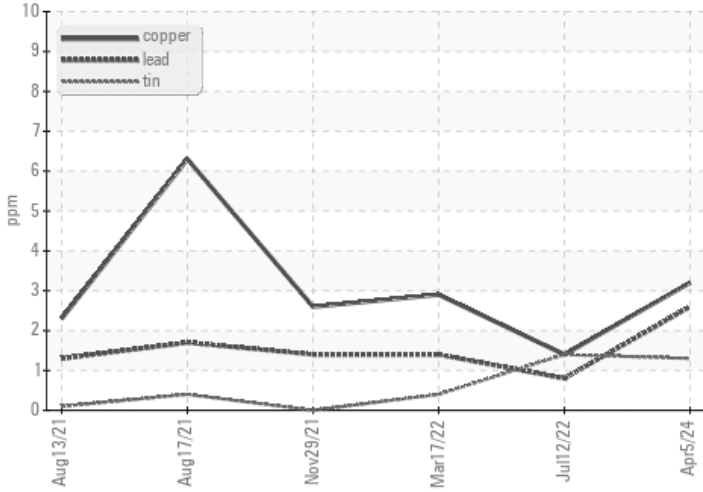


VOLVO GRAPHS

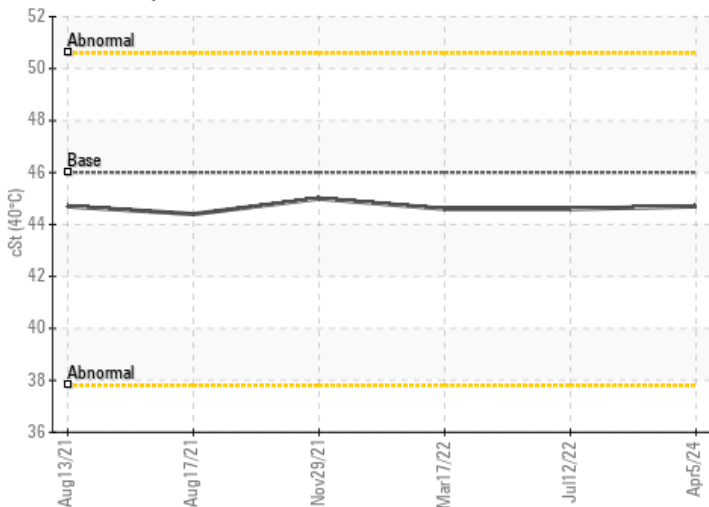
Ferrous Alloys



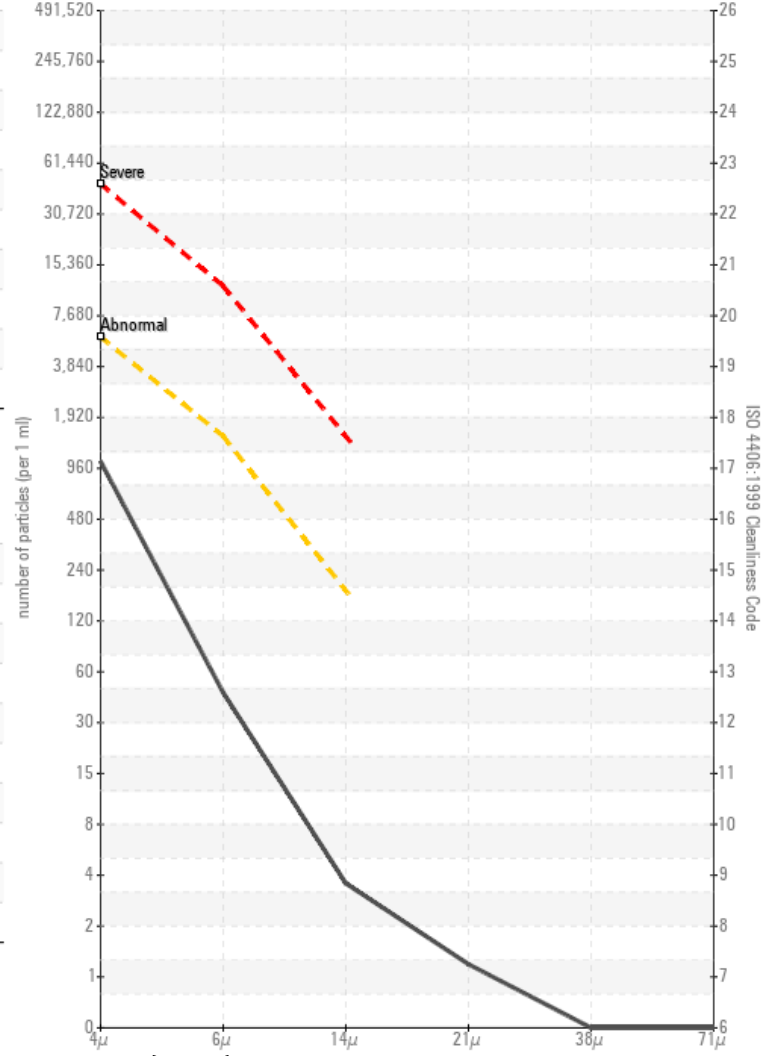
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

