



CONSTRUCTION EQUIPMENT

SPM689367 VOLVO L90H 624611 - HYDRAULIC SYSTEM



Sample No: VCP437364
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM689367



SAMPLE INFORMATION

Sample Number	VCP437364	VCP371608	VCP330441	VCP326797
Sample Date	05 Apr 2024	12 Jul 2022	17 Mar 2022	24 Nov 2021
Machine Hours	8707	6096	5503	4890
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	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	43.2	41.4	46.4	41.6
Acid Number (AN)	mg KOH/g	0.64	0.57	0.52	0.567

T:
F:

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1006	436	7283	4022
Particles >6µm		69	66	1812	553
Particles >14µm		5	13	142	26
ISO 4406:1999 (c)		17/13/10	16/13/11	20/18/14	19/16/12
Silicon	ppm	<1	1	<1	1
Sodium	ppm	0	2	2	1
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	6	5	4
Copper	ppm	2	1	1	1
Lead	ppm	2	1	<1	1
Tin	ppm	1	1	<1	0
Aluminum	ppm	1	2	<1	0
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	2	3	3	3
Nickel	ppm	<1	1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	83	193	228	220
Magnesium	ppm	11	28	34	30
Zinc	ppm	671	812	897	813
Phosphorus	ppm	593	627	727	672
Barium	ppm	0	0	0	0
Boron	ppm	0	4	4	3

Depot: INSAUR
Unique No: 10977328
Signed: Wes Davis
Report Date: 15 Apr 2024

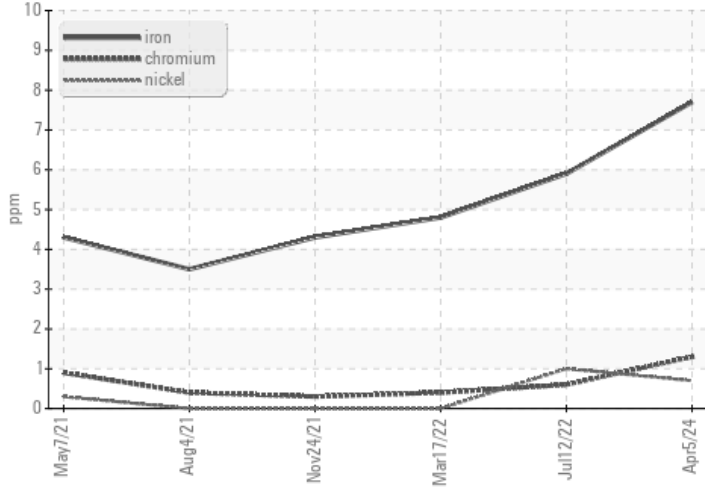


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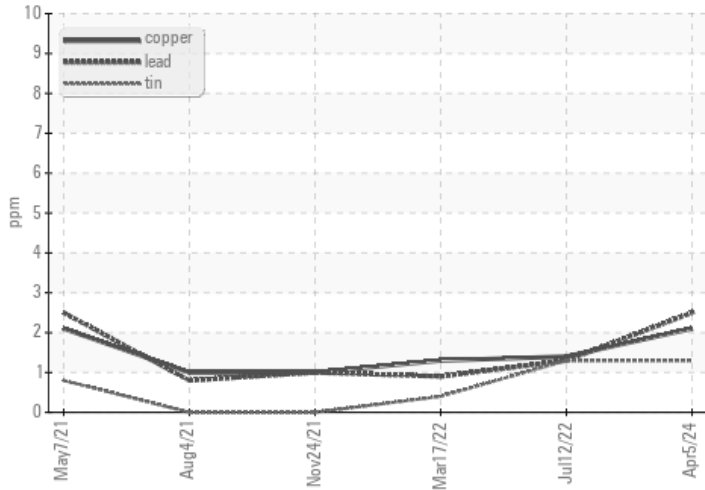


VOLVO GRAPHS

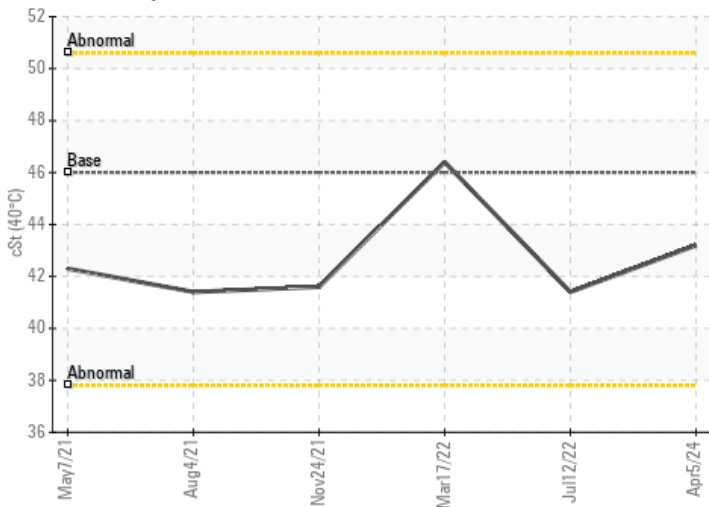
Ferrous Alloys



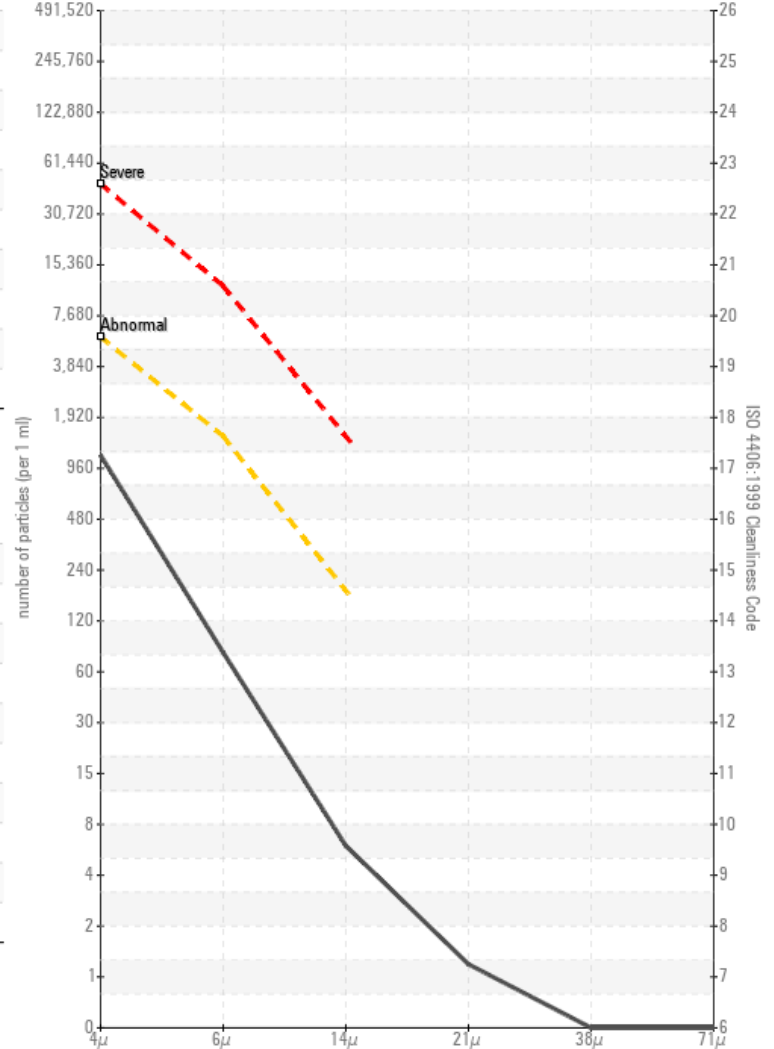
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

