



CONSTRUCTION EQUIPMENT

567901 VOLVO L110H 632273 - HYDRAULIC SYSTEM



Sample No: VCP424394
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 567901



SAMPLE INFORMATION

Sample Number	VCP424394	VCP411624	VCP386647	---
Sample Date	28 Jun 2023	14 Jun 2023	29 Nov 2022	---
Machine Hours	2095	2490	1001	---
Oil Hours	2095	2490	1000	---
Oil Changed	Not Changd	Not Changd	Not Changd	---
Sample Status	NORMAL	ABNORMAL	ATTENTION	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rturner@ripatampa.com
T:
F:



OIL CONDITION

Visc @ 40°C	cSt	46.3	43.6	42.8	---
Acid Number (AN)	mg KOH/g	0.31	0.30	0.48	---



CONTAMINATION

Particles >4µm		4472	18082	28118	---
Particles >6µm		848	3972	3306	---
Particles >14µm		44	462	132	---
ISO 4406:1999 (c)		19/17/13	21/19/16	22/19/14	---
Silicon	ppm	2	3	4	---
Sodium	ppm	0	0	1	---
Potassium	ppm	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	7	5	5	---
Copper	ppm	2	2	36	---
Lead	ppm	2	2	0	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	0	<1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	<1	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	70	71	87	---
Magnesium	ppm	4	1	0	---
Zinc	ppm	517	443	508	---
Phosphorus	ppm	383	333	450	---
Barium	ppm	1	0	0	---
Boron	ppm	0	0	0	---

Depot: RIPTAM
Unique No: 10574252
Signed: Wes Davis
Report Date: 27 Jul 2023

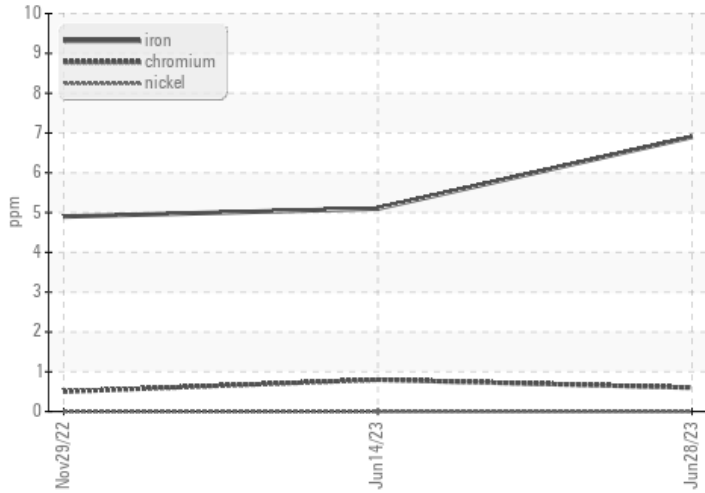


CONSTRUCTION EQUIPMENT

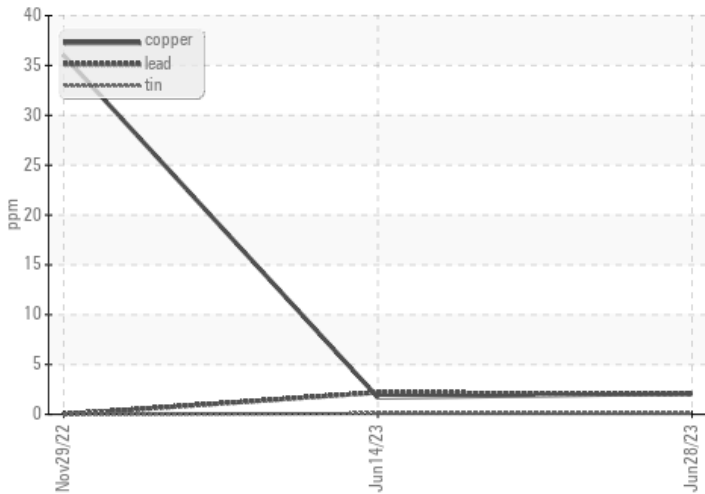


GRAPHS

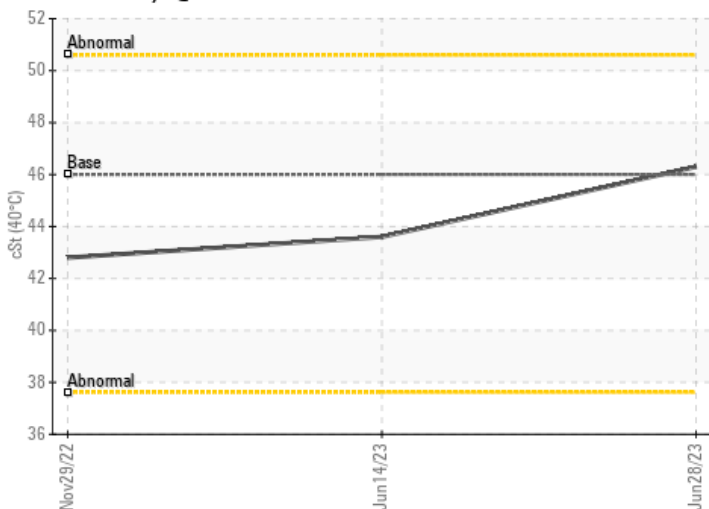
Ferrous Alloys



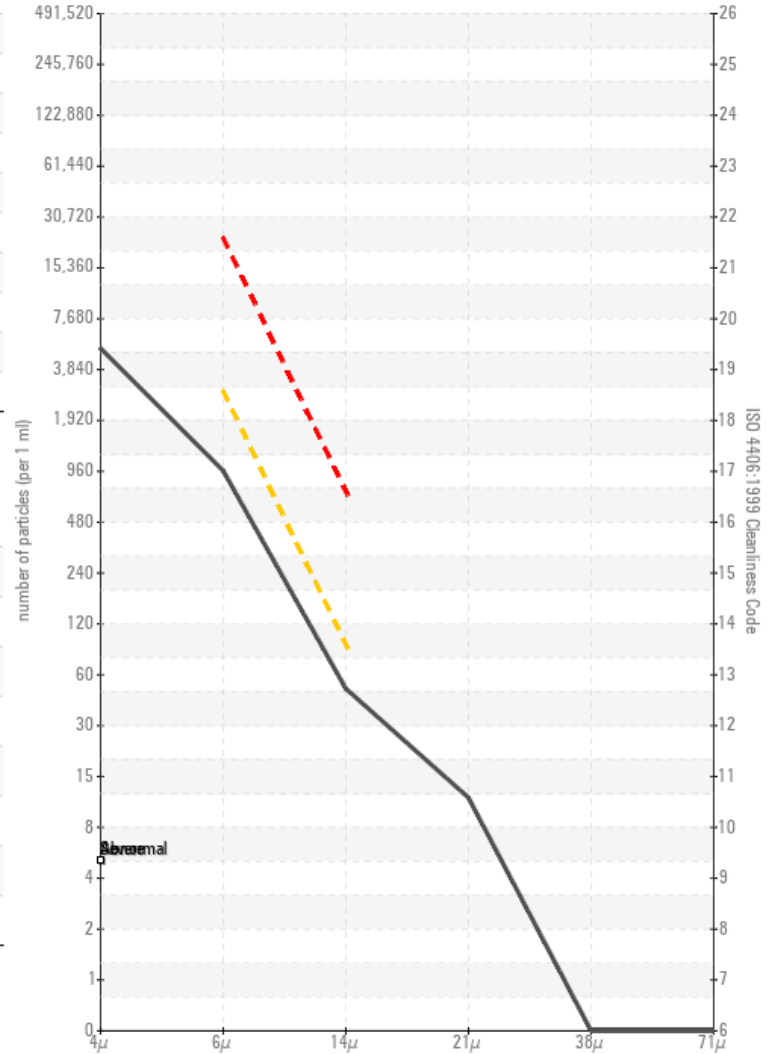
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

