



CONSTRUCTION EQUIPMENT

A12261 VOLVO L110H 632554 - HYDRAULIC SYSTEM



Sample No: VCP439563
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12261



SAMPLE INFORMATION

Sample Number	VCP439563	VCP425964	---	---
Sample Date	06 Mar 2024	06 Oct 2023	---	---
Machine Hours	2725	1475	---	---
Oil Hours	2725	1475	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

HMR ASSOCIATES
 PO BOX 485
 TOUGHKENAMON, PA
 US 19374
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 40°C	cSt	█ 41.6	█ 42.4	---	---
Acid Number (AN)	mg KOH/g	█ 0.38	█ 0.34	---	---

T:
 F: (610)268-2225



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		█ 5207	---	---	---
Particles >6µm		█ 1002	---	---	---
Particles >14µm		█ 68	---	---	---
ISO 4406:1999 (c)		20/17/13	---	---	---
Silicon	ppm	█ 2	█ 1	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ 4	█ 2	---	---

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	█ 6	█ 5	---	---
Copper	ppm	█ 3	█ 2	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 2	█ <1	---	---
Molybdenum	ppm	█ 1	█ <1	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ 0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	66	█ 62	---	---
Magnesium	ppm	█ 6	█ 5	---	---
Zinc	ppm	█ 442	█ 443	---	---
Phosphorus	ppm	█ 340	█ 345	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ <1	█ 0	---	---

Depot: HMRTOU
Unique No: 10937724
Signed: Wes Davis
Report Date: 24 Mar 2024

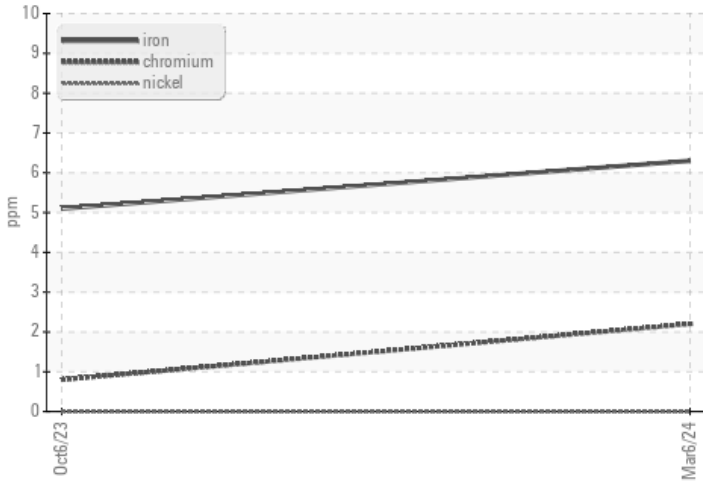


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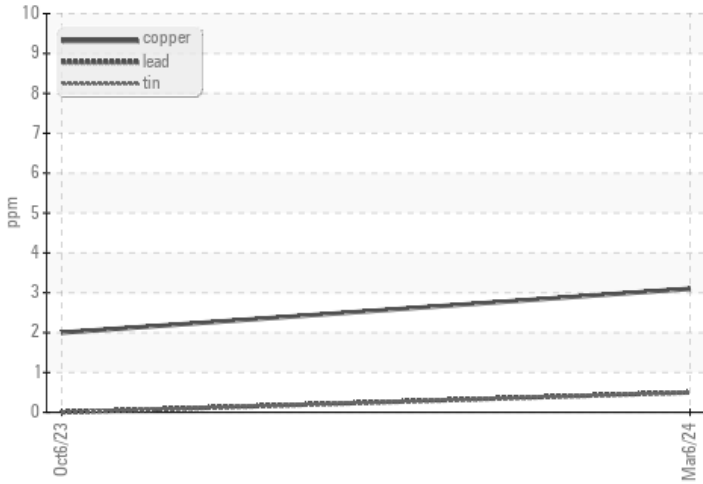


GRAPHS

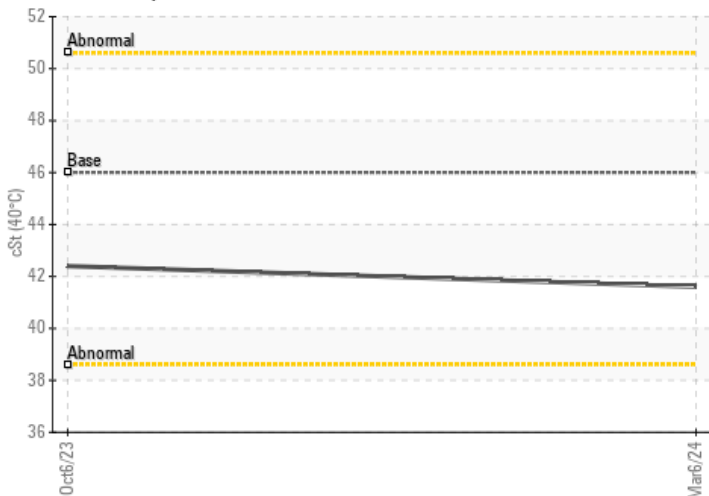
Ferrous Alloys



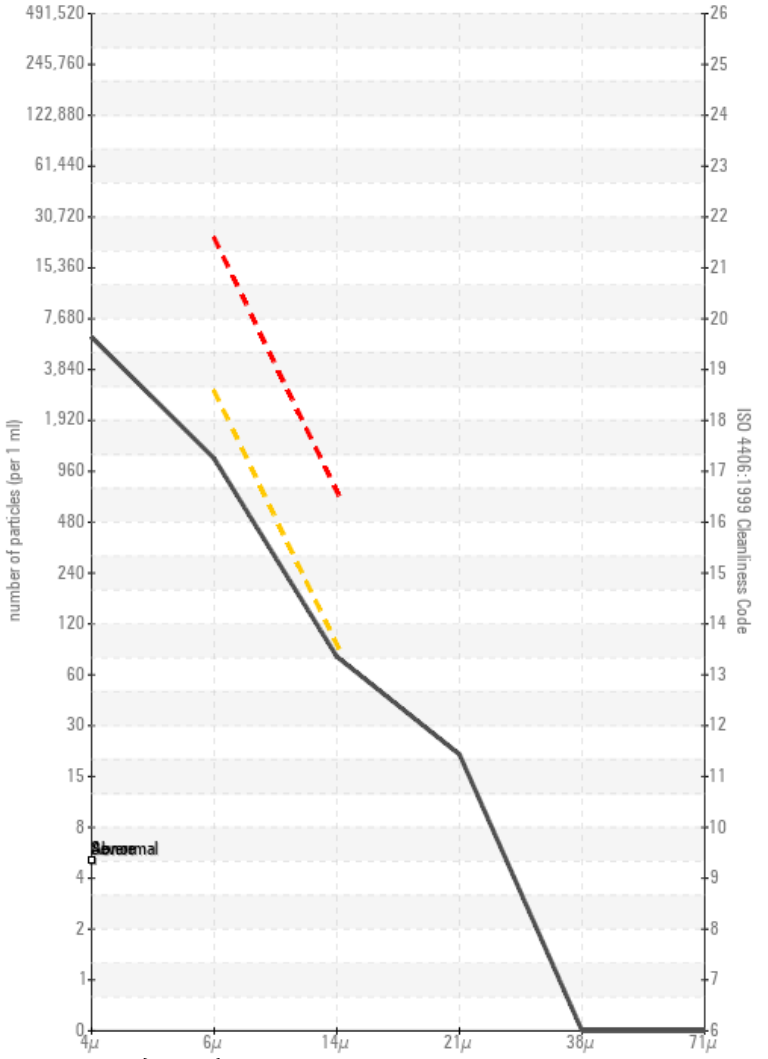
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

