



CONSTRUCTION EQUIPMENT

VOLVO L70H 624368 - DIESEL ENGINE



Sample No: VCP0008733
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP0008733	---	---	---
Sample Date	21 Jun 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	51	---	---	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.
 All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	37	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---



WEAR METALS

Iron	ppm	█ 3	---	---	---
Copper	ppm	█ 0	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 88	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 1727	---	---	---
Magnesium	ppm	█ 445	---	---	---
Zinc	ppm	█ 1261	---	---	---
Phosphorus	ppm	█ 1089	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 449	---	---	---

Depot: VOLVO0092
Unique No: 11110479
Signed: Wes Davis
Report Date: 03 Jul 2024

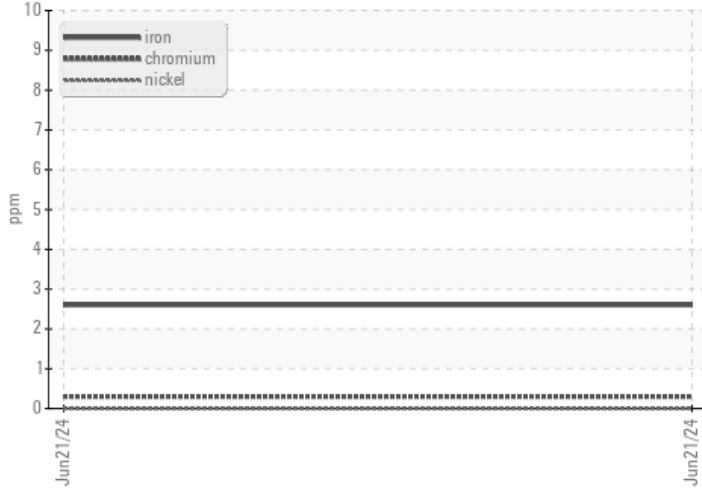


CONSTRUCTION EQUIPMENT

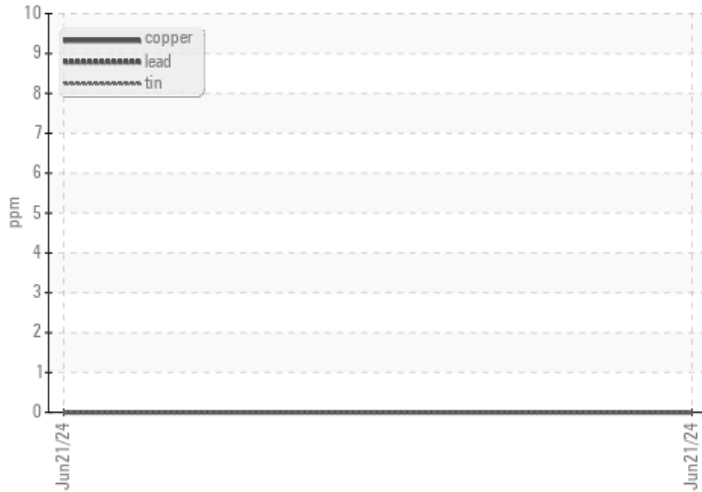


GRAPHS

Ferrous Alloys



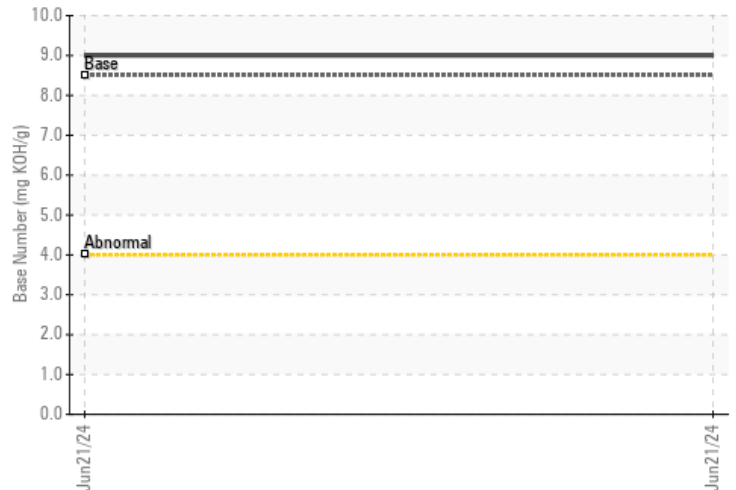
Non-ferrous Metals



Viscosity @ 100°C



Base Number





CONSTRUCTION EQUIPMENT

VOLVO L70H 624368 - TRANSMISSION



Sample No: VCP0008732

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008732	---	---	---
Sample Date	21 Jun 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 27.6	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	▲ 129	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	151	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	21	---	---	---
Phosphorus	ppm	268	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	84	---	---	---

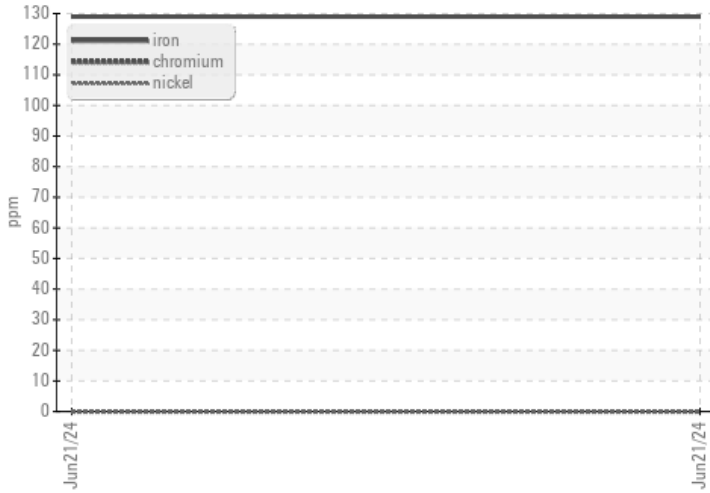
Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The iron level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: VOLVO0092
Unique No: 11111487
Signed: Don Baldrige
Report Date: 07 Jul 2024

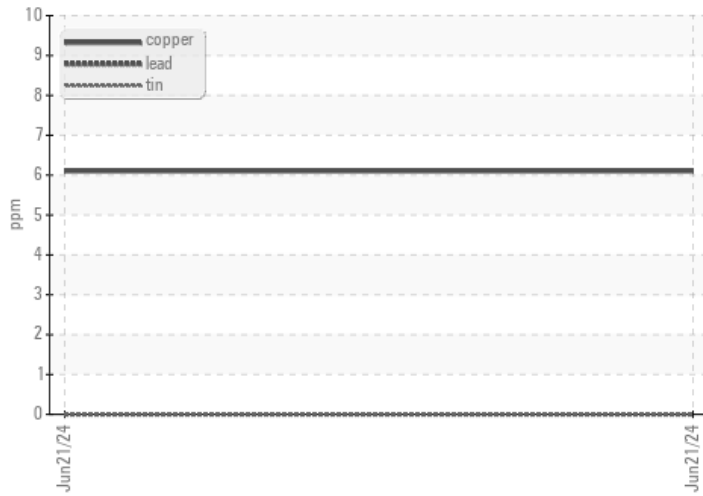


GRAPHS

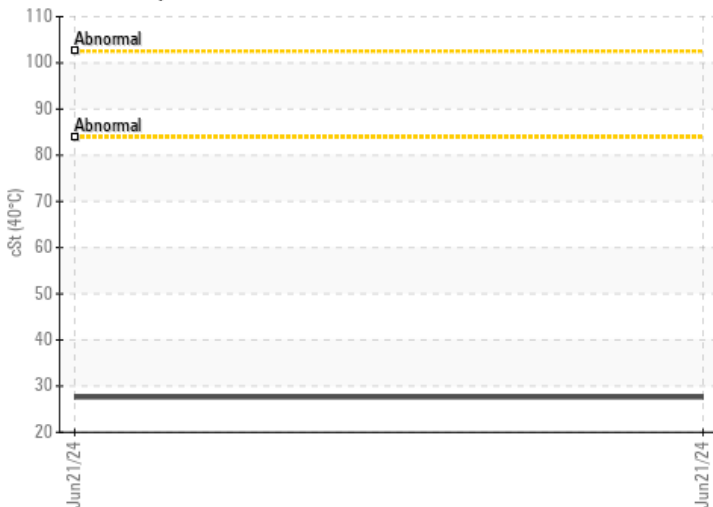
▲ Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C





CONSTRUCTION EQUIPMENT

VOLVO L70H 624368 - FRONT AXLE



Sample No: VCP0008734

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008734	VCP316879	---	---
Sample Date	21 Jun 2024	28 Jul 2021	---	---
Machine Hours	0	1959	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	56.4	39.8	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	41	11	---	---
Sodium	ppm	3	8	---	---
Potassium	ppm	<1	1	---	---



WEAR METALS

Iron	ppm	273	18	---	---
Copper	ppm	<1	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	3	0	---	---
Chromium	ppm	3	<1	---	---
Molybdenum	ppm	2	2	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	3	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	810	4650	---	---
Magnesium	ppm	11	10	---	---
Zinc	ppm	632	1637	---	---
Phosphorus	ppm	524	1475	---	---
Barium	ppm	0	0	---	---
Boron	ppm	27	165	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0092
Unique No: 11111468
Signed: Don Baldrige
Report Date: 07 Jul 2024

Submitted By: TECHNICIAN ACCOUNT

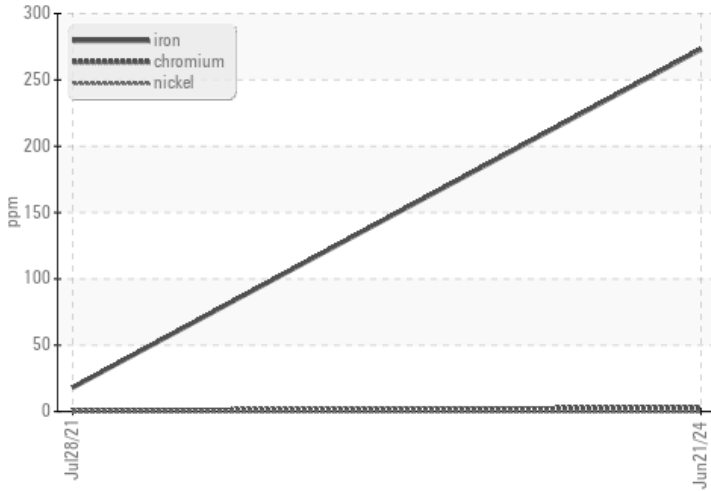


CONSTRUCTION EQUIPMENT

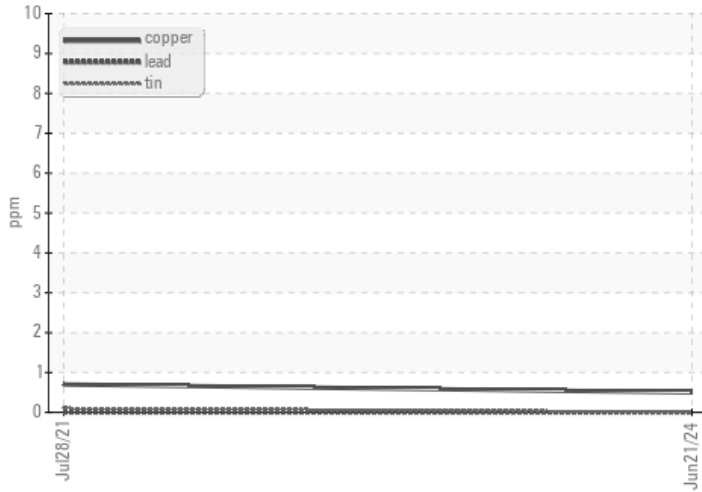


GRAPHS

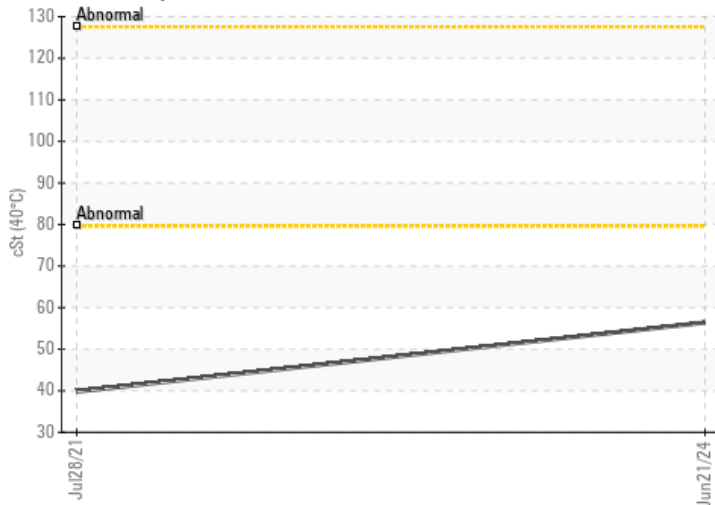
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C





CONSTRUCTION EQUIPMENT

VOLVO L70H 624368 - HYDRAULIC POWER PACK



Sample No: VCP0008730

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008730	---	---	---
Sample Date	21 Jun 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 43.2	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.36	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 14168	---	---	---
Particles >6µm		● 2045	---	---	---
Particles >14µm		█ 104	---	---	---
ISO 4406:1999 (c)		21/18/14	---	---	---
Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present 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	█ 6	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	64	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	405	---	---	---
Phosphorus	ppm	351	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO0092
Unique No: 11110848
Signed: Don Baldrige
Report Date: 06 Jul 2024

Submitted By: TECHNICIAN ACCOUNT

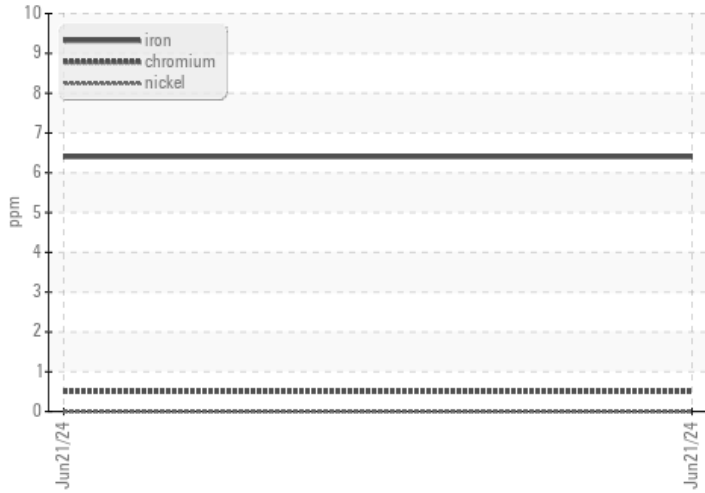


CONSTRUCTION EQUIPMENT

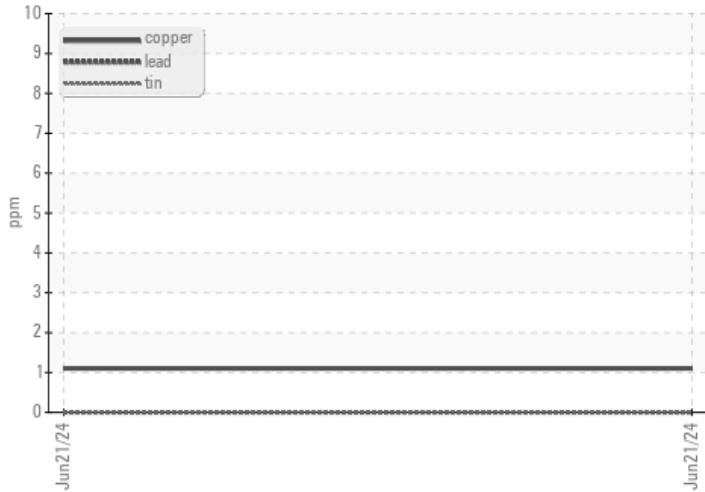


GRAPHS

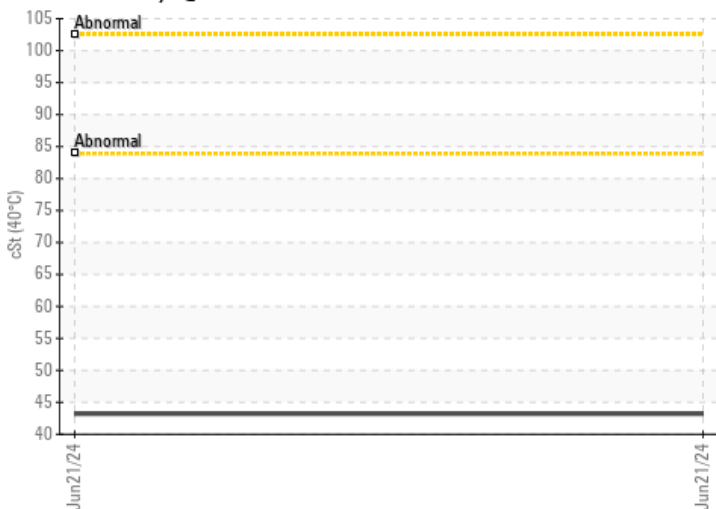
Ferrous Alloys



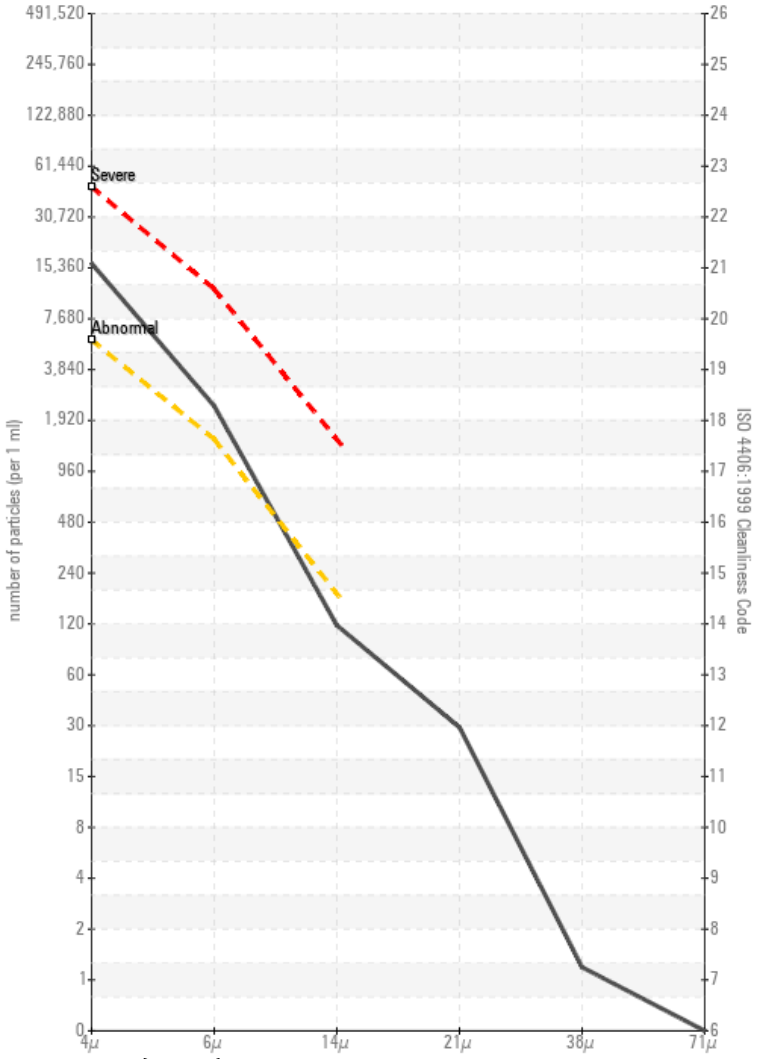
Non-ferrous Metals



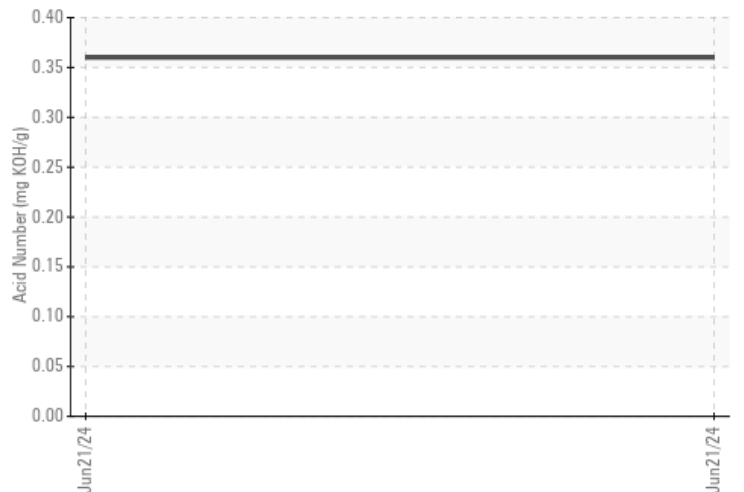
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

VOLVO L70H 624368 - REAR AXLE



Sample No: VCP0008731

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008731	VCP313023	---	---
Sample Date	21 Jun 2024	28 Jul 2021	---	---
Machine Hours	0	1959	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	52.2	40.2	---	---
-------------	-----	-------------	------	-----	-----



CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	45	13	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	<1	2	---	---



WEAR METALS

Iron	ppm	299	109	---	---
Copper	ppm	<1	112	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	11	---	---
Aluminum	ppm	3	0	---	---
Chromium	ppm	3	4	---	---
Molybdenum	ppm	2	5	---	---
Nickel	ppm	0	1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	3	9	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	837	4512	---	---
Magnesium	ppm	11	9	---	---
Zinc	ppm	659	1566	---	---
Phosphorus	ppm	524	1471	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	23	161	---	---

Diagnosis

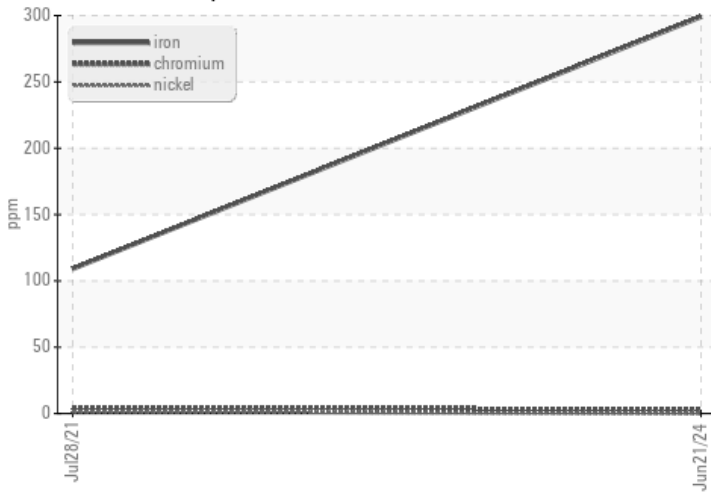
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0092
Unique No: 11111469
Signed: Don Baldrige
Report Date: 07 Jul 2024

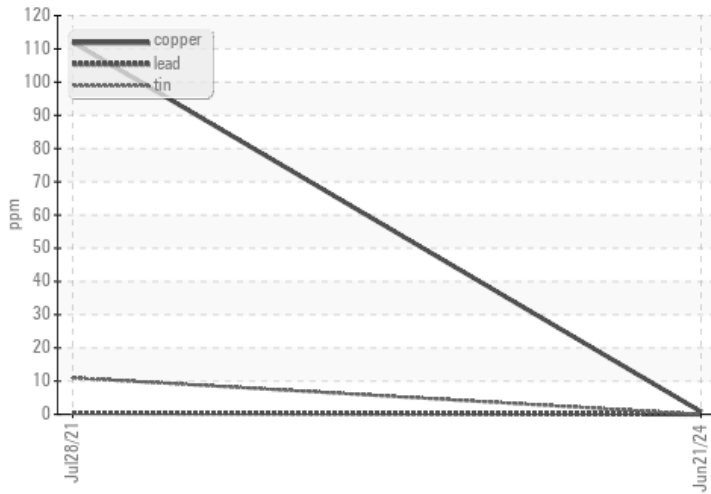


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

