



CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - COOLANT



Sample No: VCP0008465

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008465	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	3922	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY

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COOLANT CONDITION

pH	Scale 0-14	■ 7.76	---	---	---
Reserve Alkalinity	Scale 0-20	---	---	---	---
Nitrites	ppm	■ NT	---	---	---
Percentage Glycol	%	▲ 33.7	---	---	---
Freezing Point	°C	■ 0	---	---	---

Diagnosis

We recommend that you perform a partial drain and top off with straight antifreeze to increase level of glycol. There is no indication of any contamination in the coolant. Carboxylate test failed. The glycol level is lower than acceptable. The pH level of this fluid is within the acceptable limits.



CONTAMINATION

Coolant Appearance	normal	---	---	---
Coolant Color	Yllow	---	---	---

Depot: VOLVO0092
Unique No: 11111534
Signed: Jonathan Hester
Report Date: 08 Jul 2024

Submitted By: TECHNICIAN ACCOUNT



CONSTRUCTION EQUIPMENT

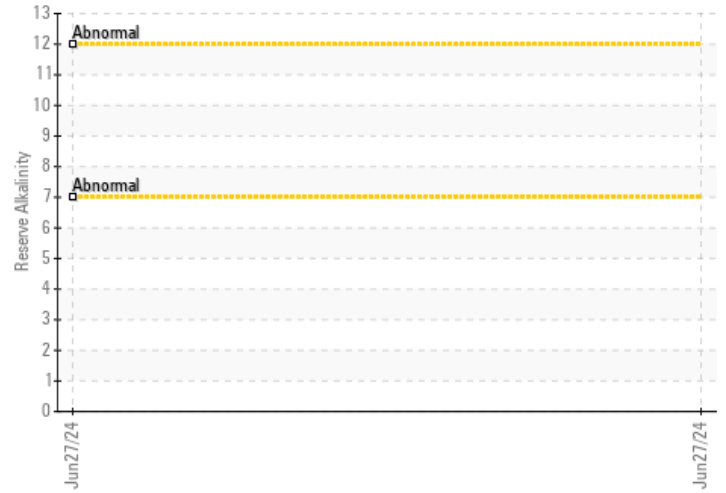


GRAPHS

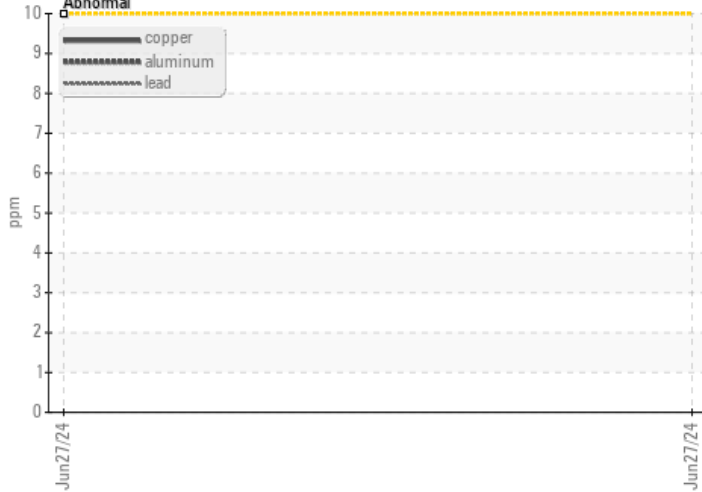
Iron/Tin/Silver



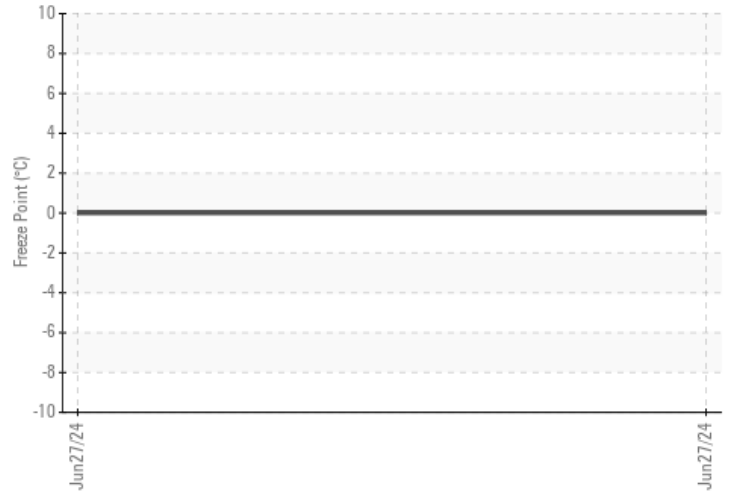
Reserve Alkalinity



Copper/Aluminum/Lead



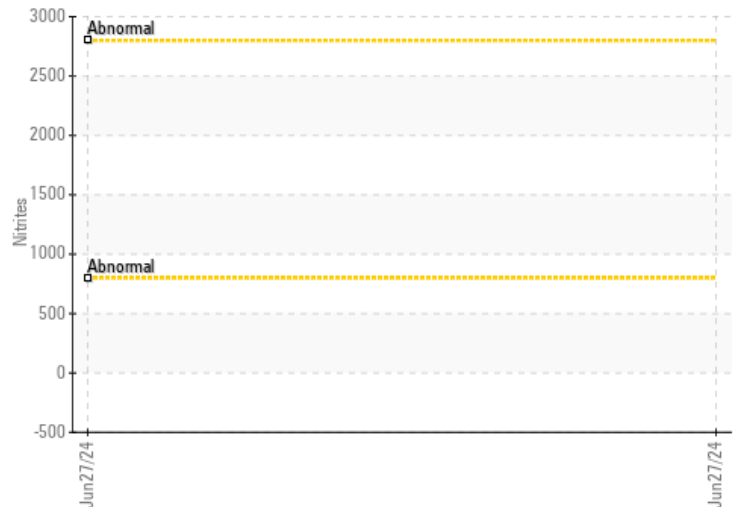
Freeze Point



pH



Nitrites





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - DIESEL ENGINE



Sample No: VCP0008463
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP0008463	VCP291435	---	---
Sample Date	27 Jun 2024	29 Dec 2020	---	---
Machine Hours	3922	0	---	---
Oil Hours	3922	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.9	---	---
Base Number (BN)	mg KOH/g	8.3	---	---	---
Oxidation (PA)	%	53	62	---	---

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 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	NEG	---	---
Soot %	%	0.2	0.7	---	---
Nitration (PA)	%	48	69	---	---
Sulfation (PA)	%	51	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	2	---	---
Sodium	ppm	2	9	---	---
Potassium	ppm	1	2	---	---



WEAR METALS

Iron	ppm	7	13	---	---
Copper	ppm	11	9	---	---
Lead	ppm	0	1	---	---
Tin	ppm	0	1	---	---
Aluminum	ppm	4	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	72	61	---	---
Nickel	ppm	2	1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1281	1118	---	---
Magnesium	ppm	508	968	---	---
Zinc	ppm	1136	1270	---	---
Phosphorus	ppm	961	1059	---	---
Barium	ppm	0	0	---	---
Boron	ppm	230	5	---	---

Depot: VOLVO0092
Unique No: 11110477
Signed: Wes Davis
Report Date: 03 Jul 2024

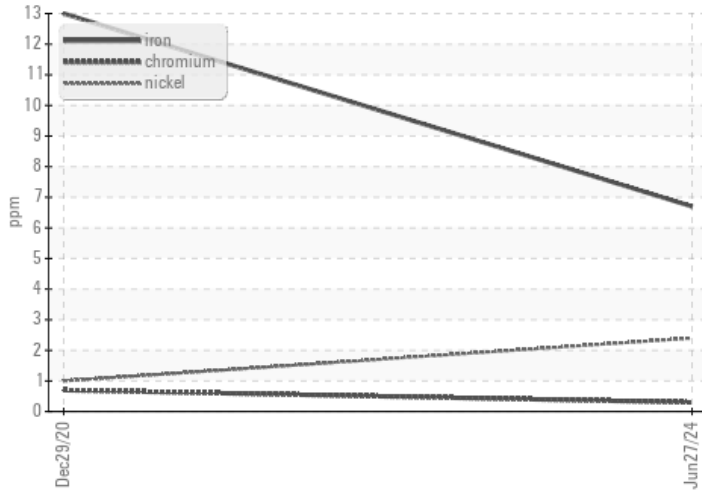


CONSTRUCTION EQUIPMENT

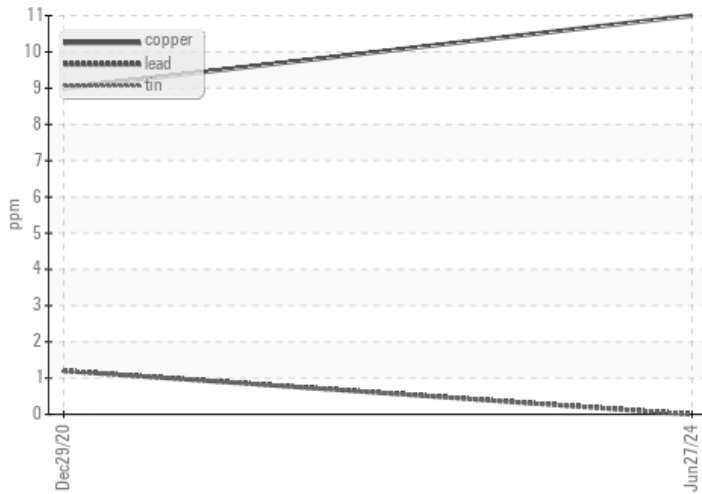


GRAPHS

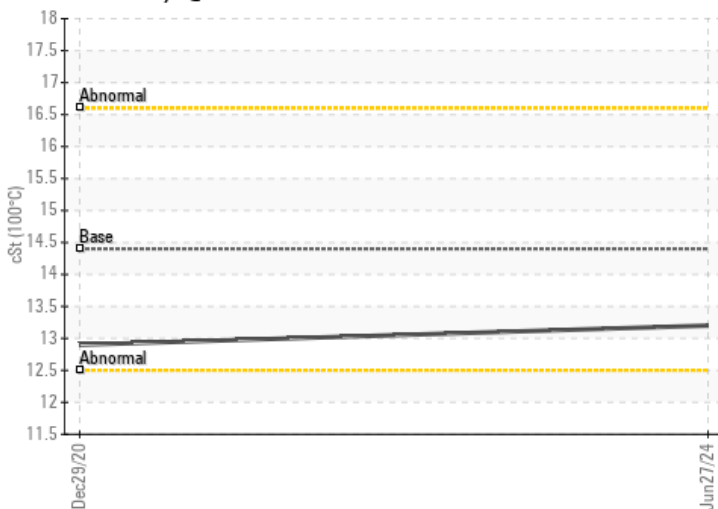
Ferrous Alloys



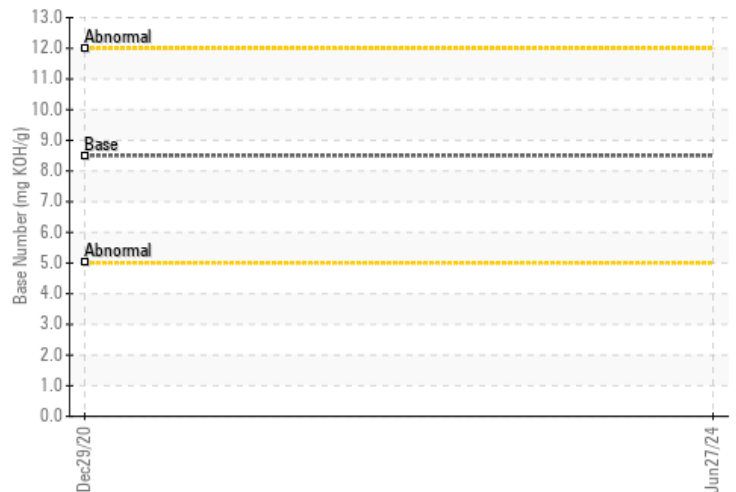
Non-ferrous Metals



Viscosity @ 100°C



Base Number





CONSTRUCTION EQUIPMENT

62551 SUPERIOR VOLVO A45G 342727 - DIESEL FUEL



Sample No: VCP301933
Oil Type: {unknown}
Job No: 62551 SUPERIOR



SAMPLE INFORMATION

Sample Number	VCP301933	---	---	---
Sample Date	29 Dec 2020	---	---	---
Machine Hours	0	---	---	---
Sample Status	NORMAL	---	---	---

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FUEL CONDITION

Sulfur	ppm	■ 4	---	---	---
Visc @ 40°C	cSt	■ 2.35	---	---	---



CONTAMINATION

Water	%	■ 0.003	---	---	---
Lead	ppm	■ 2	---	---	---
Nickel	ppm	■ <1	---	---	---
Aluminum	ppm	■ 0	---	---	---
Vanadium	ppm	■ 0	---	---	---
Silicon	ppm	■ 0	---	---	---

Diagnosis

This is a baseline read-out on the submitted sample. The water content is negligible. There is no indication of any contamination in the fuel.

Depot: VOLVO0092

Unique No: 9309599

Signed: Jonathan Hester

Report Date: 06 Jan 2021

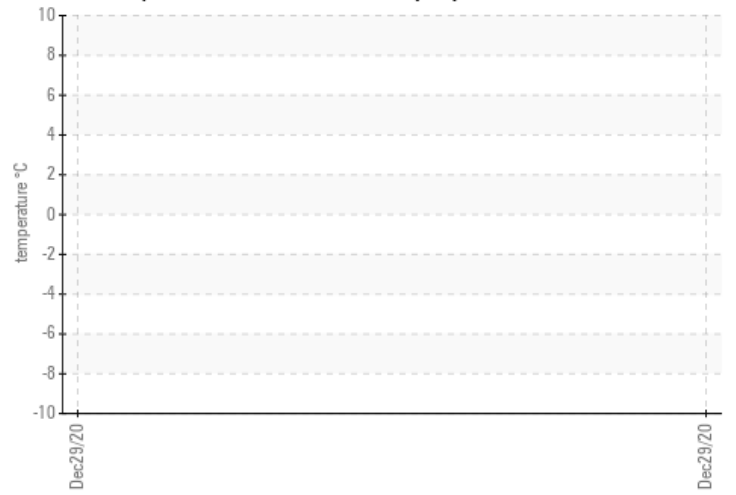


CONSTRUCTION EQUIPMENT



GRAPHS

Pensky-Martens Flash Point (°C)





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - TRANSMISSION (AUTO)



Sample No: VCP0008464
Oil Type: VOLVO AT 102
Job No:



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SAMPLE INFORMATION

Sample Number	VCP0008464	VCP315967	---	---
Sample Date	27 Jun 2024	13 Jul 2021	---	---
Machine Hours	3922	3922	---	---
Oil Hours	3922	1922	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	28.6	26.4	---	---
-------------	-----	-------------	------	-----	-----



CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	4	4	---	---
Sodium	ppm	4	7	---	---
Potassium	ppm	2	<1	---	---



WEAR METALS

Iron	ppm	18	38	---	---
Copper	ppm	15	34	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	5	---	---
Aluminum	ppm	8	17	---	---
Chromium	ppm	0	<1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	<1	5	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	72	93	---	---
Magnesium	ppm	1	<1	---	---
Zinc	ppm	3	4	---	---
Phosphorus	ppm	197	158	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	84	68	---	---

Diagnosis

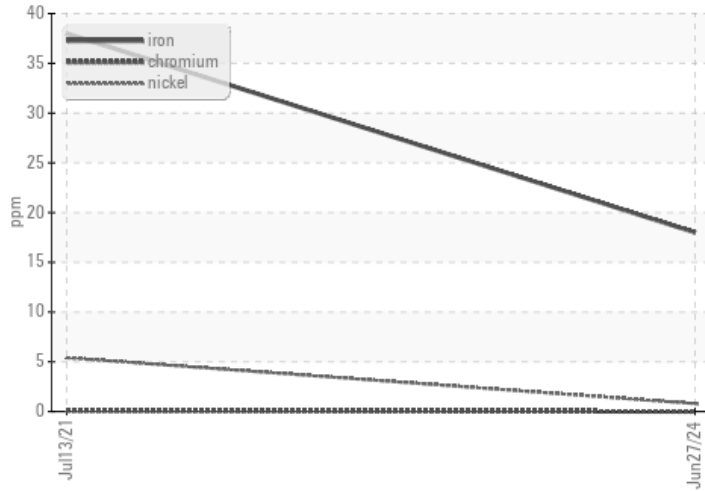
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: VOLVO0092
Unique No: 11111486
Signed: Don Baldrige
Report Date: 07 Jul 2024

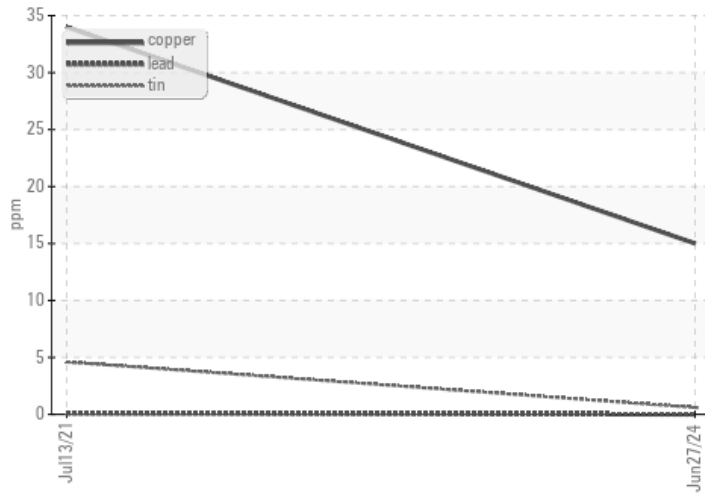


GRAPHS

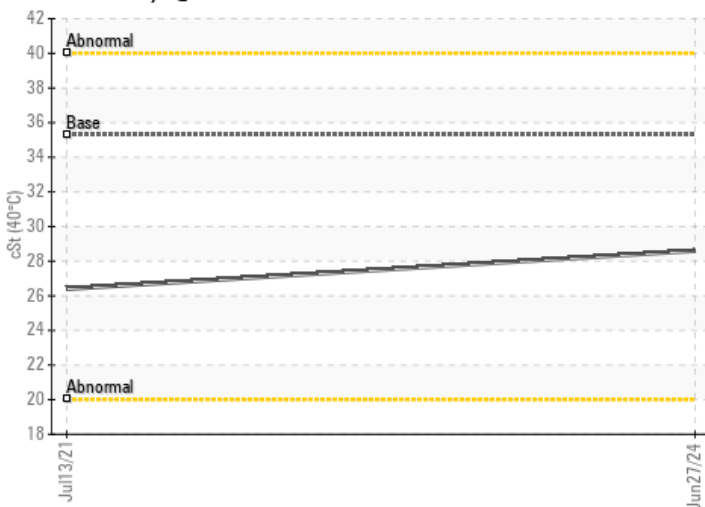
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - BRAKE COOLING SYSTEM



Sample No: VCP0008466

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008466	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	3922	---	---	---
Oil Hours	3922	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 41.0	---	---	---
-------------	-----	--------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 19	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 0	---	---	---



WEAR METALS

Iron	ppm	■ 44	---	---	---
Copper	ppm	▲ 262	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	<1	---	---	---
Nickel	ppm	■ 5	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	3371	---	---	---
Magnesium	ppm	10	---	---	---
Zinc	ppm	1391	---	---	---
Phosphorus	ppm	1281	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	106	---	---	---

Diagnosis

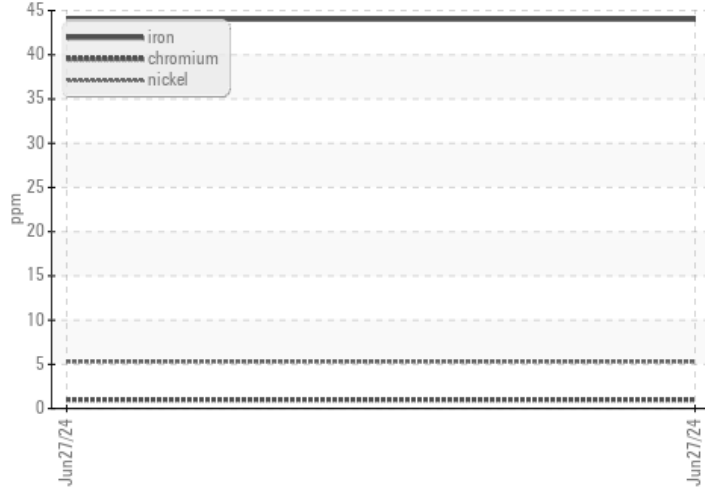
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the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

Depot: VOLVO0092
Unique No: 11111466
Signed: Don Baldrige
Report Date: 07 Jul 2024



GRAPHS

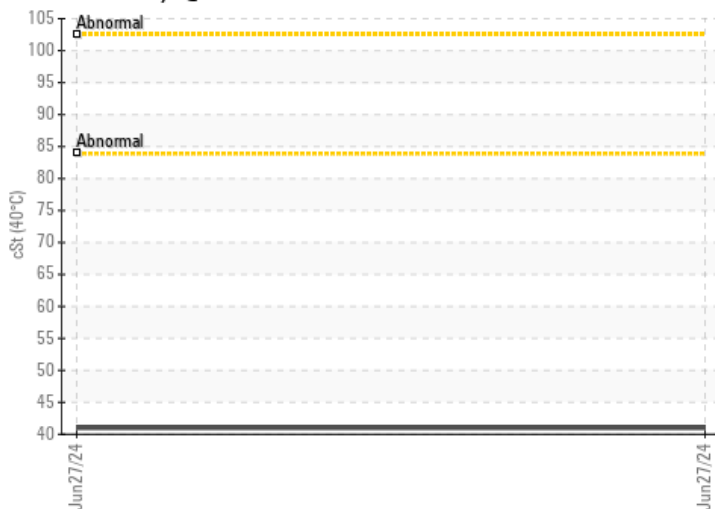
Ferrous Alloys



▲ Non-ferrous Metals



Viscosity @ 40°C





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - HYDRAULIC SYSTEM



Sample No: VCP0008469

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008469	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	3922	---	---	---
Oil Hours	3922	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 39.2	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.44	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		■ 7848	---	---	---
Particles >6µm		■ 771	---	---	---
Particles >14µm		■ 34	---	---	---
ISO 4406:1999 (c)		20/17/12	---	---	---
Silicon	ppm	■ 5	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ <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	■ 20	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ 2	---	---	---
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	60	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	424	---	---	---
Phosphorus	ppm	336	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO0092
Unique No: 11110829
Signed: Don Baldrige
Report Date: 06 Jul 2024

Submitted By: TECHNICIAN ACCOUNT

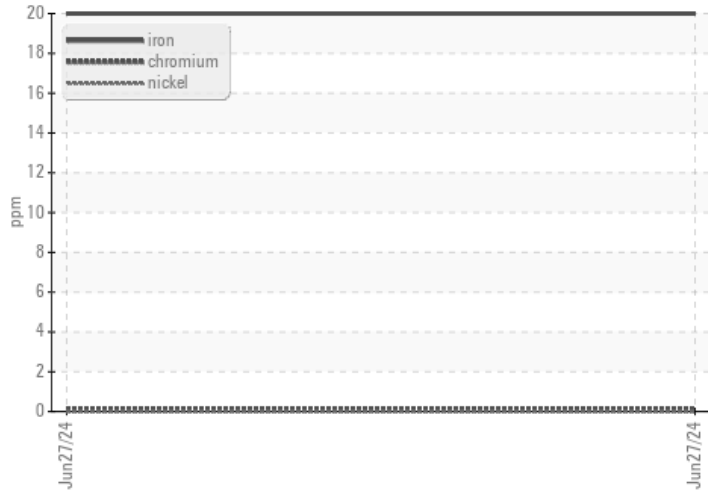


CONSTRUCTION EQUIPMENT

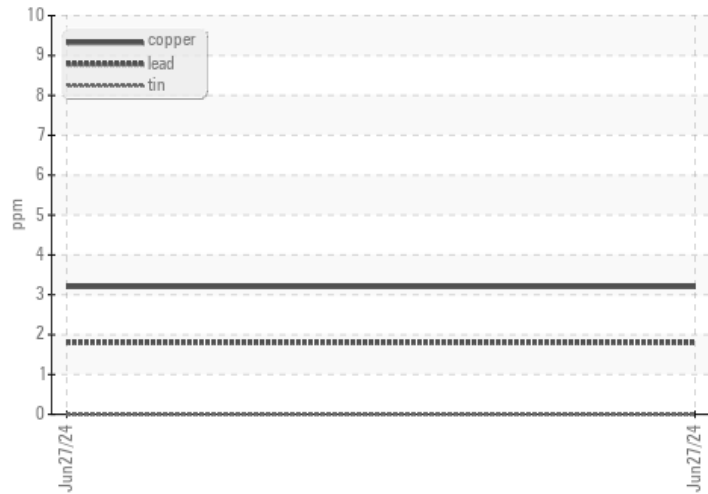


GRAPHS

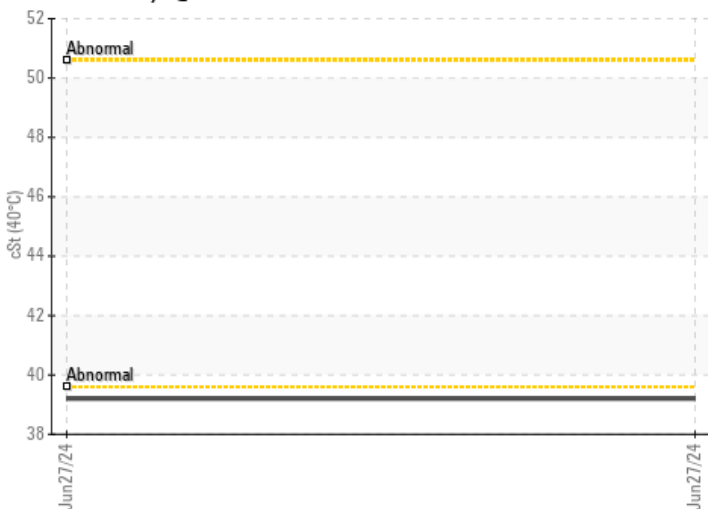
Ferrous Alloys



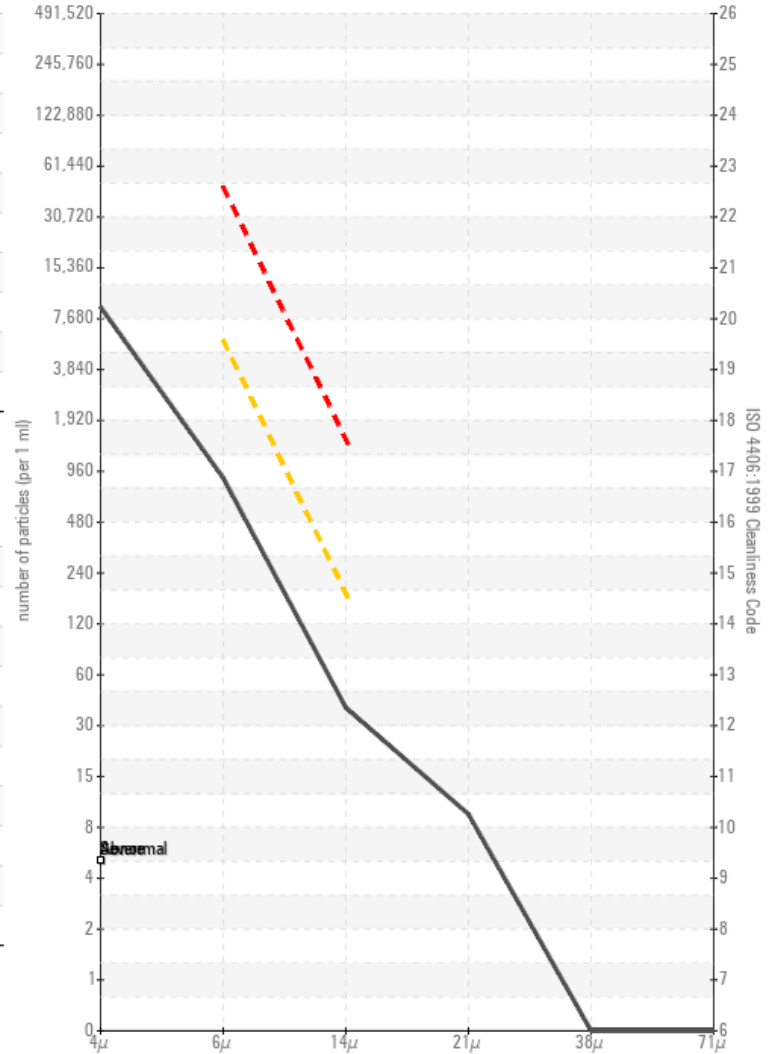
Non-ferrous Metals



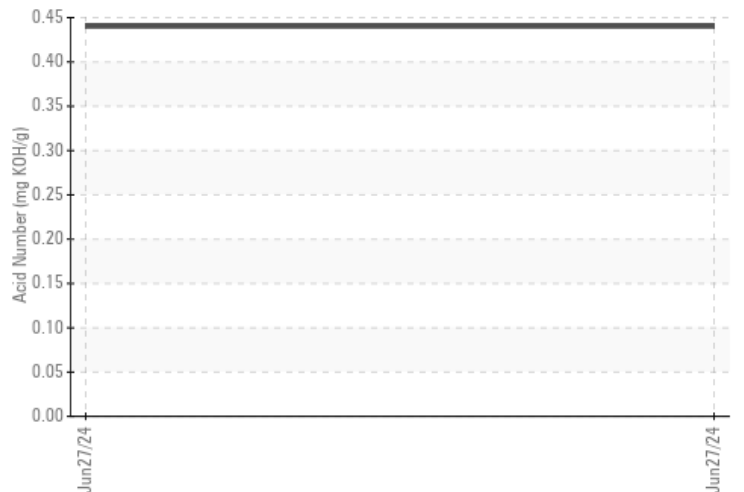
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - FRONT AXLE



Sample No: VCP0008468

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008468	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	3922	---	---	---
Oil Hours	3922	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 93.4	---	---	---
-------------	-----	--------	-----	-----	-----



CONTAMINATION

Water	%	■ 0.160	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ <1	---	---	---

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.



WEAR METALS

Iron	ppm	■ 154	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	3	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

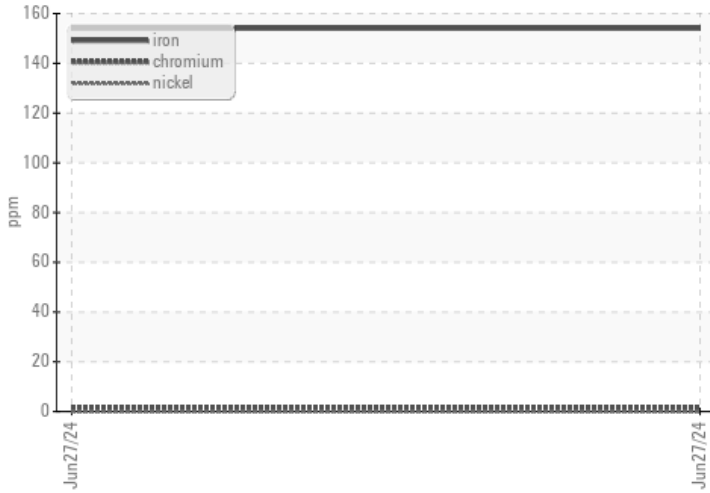
Calcium	ppm	124	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	47	---	---	---
Phosphorus	ppm	1257	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	311	---	---	---

Depot: VOLVO0092
Unique No: 11111467
Signed: Don Baldrige
Report Date: 07 Jul 2024

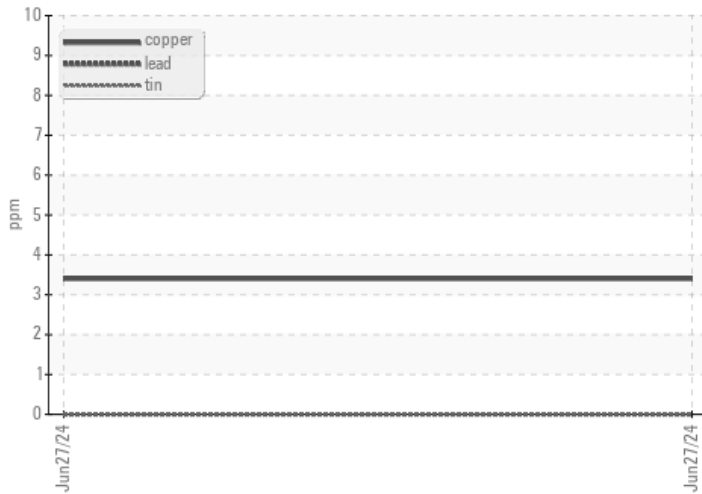


GRAPHS

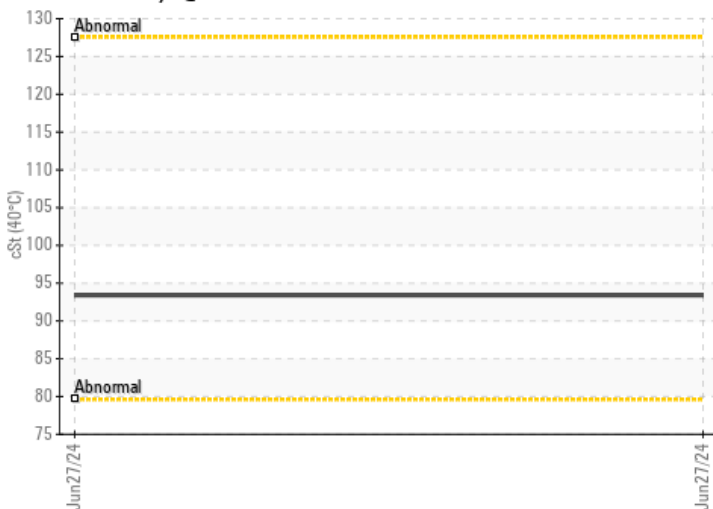
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - MIDDLE AXLE



Sample No: VCP0008470

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008470	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	3922	---	---	---
Oil Hours	3922	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 93.1	---	---	---
-------------	-----	--------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 1	---	---	---

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.



WEAR METALS

Iron	ppm	■ 132	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	88	---	---	---
Magnesium	ppm	3	---	---	---
Zinc	ppm	37	---	---	---
Phosphorus	ppm	1251	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	312	---	---	---

Depot: VOLVO0092
Unique No: 11111464
Signed: Wes Davis
Report Date: 05 Jul 2024

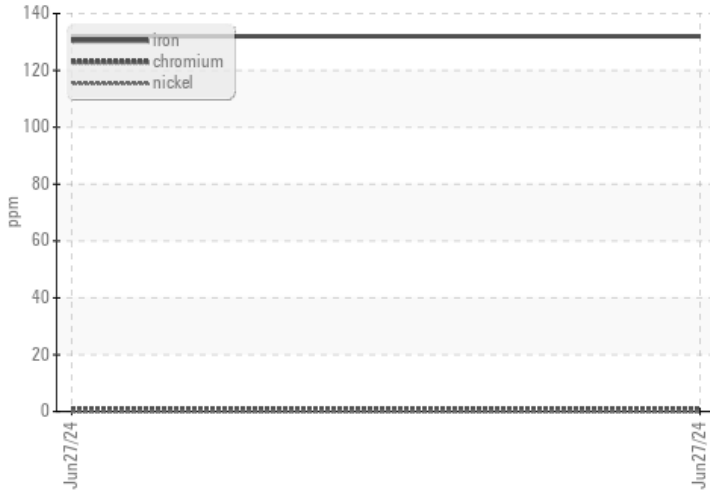


CONSTRUCTION EQUIPMENT

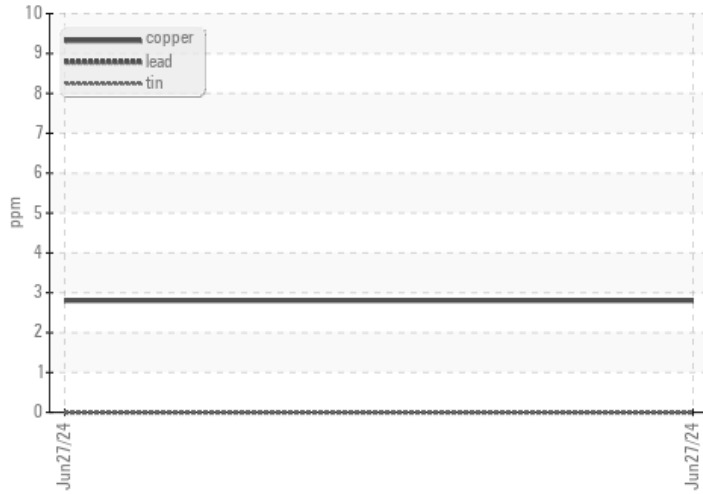


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - REAR AXLE



Sample No: VCP0008471

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008471	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	3922	---	---	---
Oil Hours	3922	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 97.8	---	---	---
-------------	-----	--------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ <1	---	---	---



WEAR METALS

Iron	ppm	■ 52	---	---	---
Copper	ppm	■ 1	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	93	---	---	---
Magnesium	ppm	2	---	---	---
Zinc	ppm	38	---	---	---
Phosphorus	ppm	1268	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	318	---	---	---

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: 11111462
Signed: Wes Davis
Report Date: 05 Jul 2024

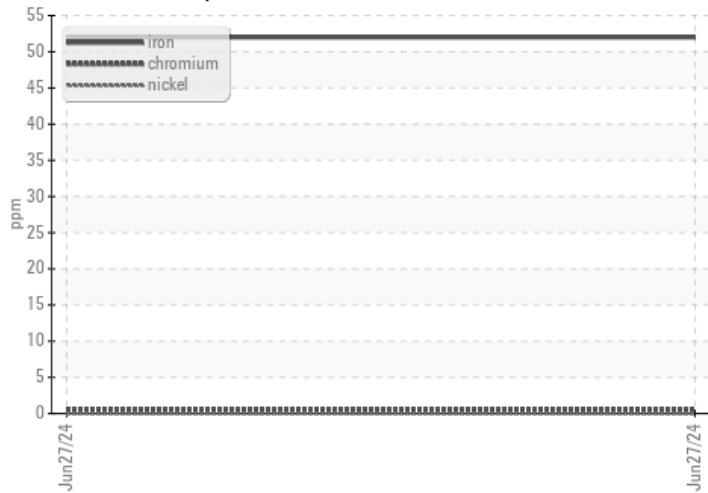


CONSTRUCTION EQUIPMENT

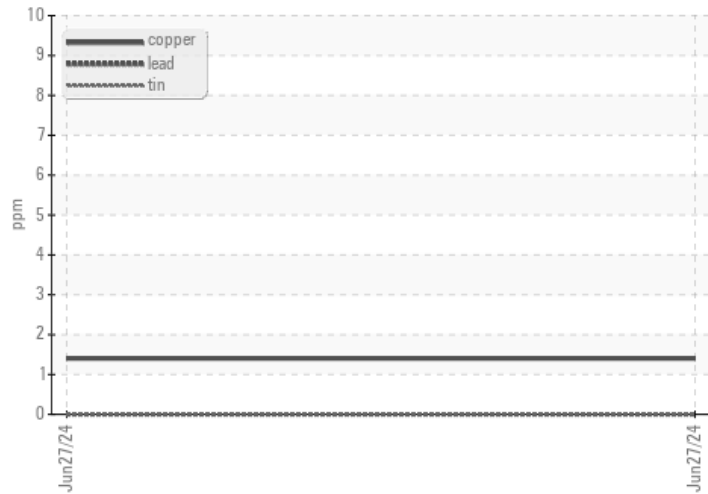


GRAPHS

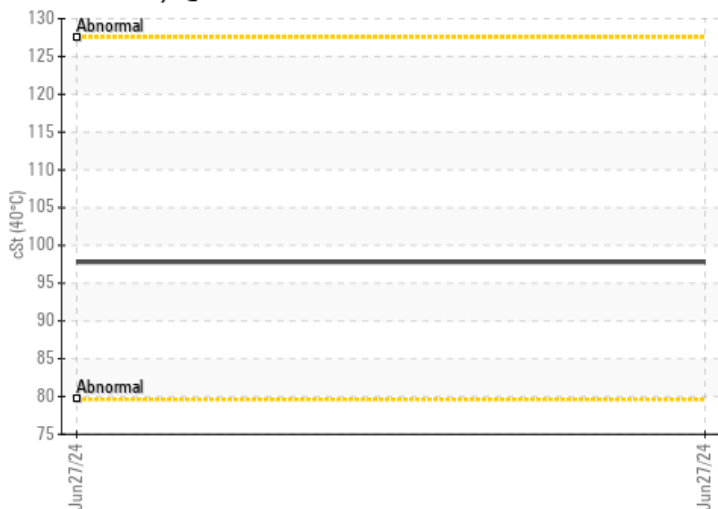
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C





CONSTRUCTION EQUIPMENT

VOLVO A45G 342727 - DROP BOX



Sample No: VCP0008467

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0008467	---	---	---
Sample Date	27 Jun 2024	---	---	---
Machine Hours	3922	---	---	---
Oil Hours	3922	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY
 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256
 Contact: TECHNICIAN ACCOUNT
 catherine.anastasio@wearcheck.com
 T:
 F: (904)737-1260



OIL CONDITION

Visc @ 40°C	cSt	█ 104	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 4	---	---	---

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.



WEAR METALS

Iron	ppm	█ 80	---	---	---
Copper	ppm	█ <1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	5	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	27	---	---	---
Magnesium	ppm	7	---	---	---
Zinc	ppm	33	---	---	---
Phosphorus	ppm	575	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	39	---	---	---

Depot: VOLVO0092
Unique No: 11111465
Signed: Don Baldrige
Report Date: 07 Jul 2024

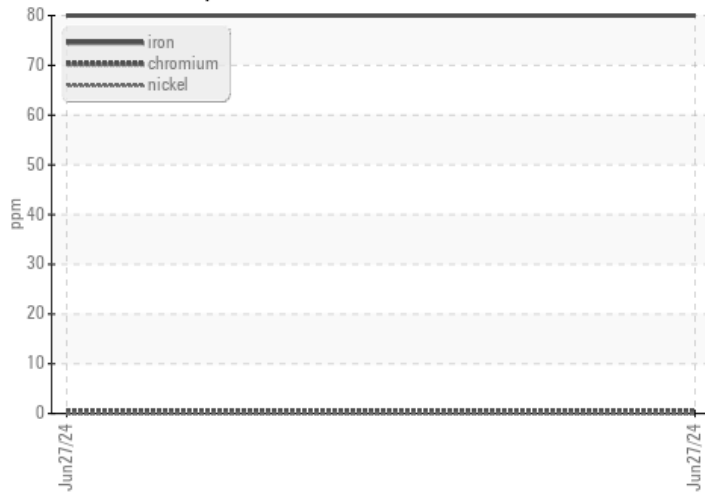


CONSTRUCTION EQUIPMENT

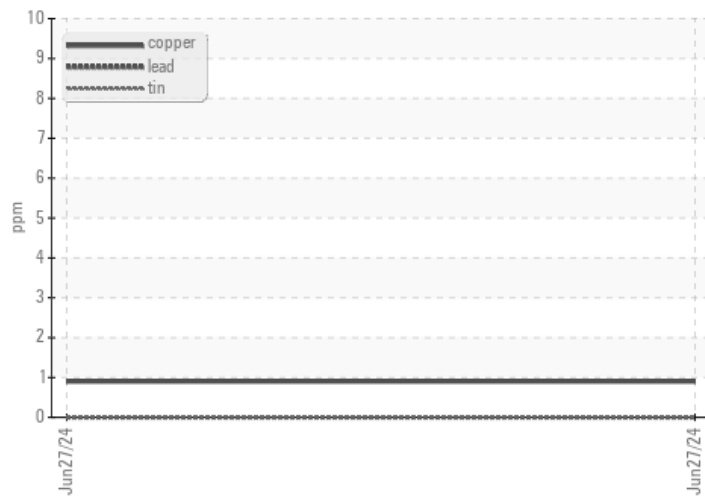


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

