



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352244 - BRAKE COOLING SYSTEM



Sample No: VCP0007642
Oil Type: TRANSAXLE OIL SAE 75W80
Job No:



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP0007642	---	---	---
Sample Date	23 May 2023	---	---	---
Machine Hours	6193	---	---	---
Oil Hours	6193	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 40.5	---	---	---
-------------	-----	--------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	▲ 251	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 6	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 3564	---	---	---
Magnesium	ppm	█ 9	---	---	---
Zinc	ppm	█ 1528	---	---	---
Phosphorus	ppm	█ 1272	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 107	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. 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.

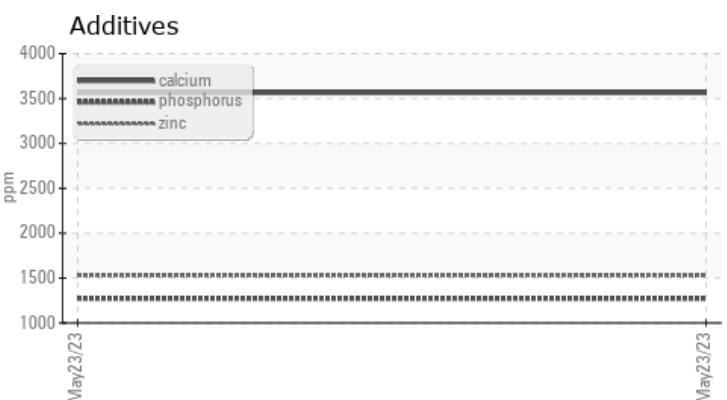
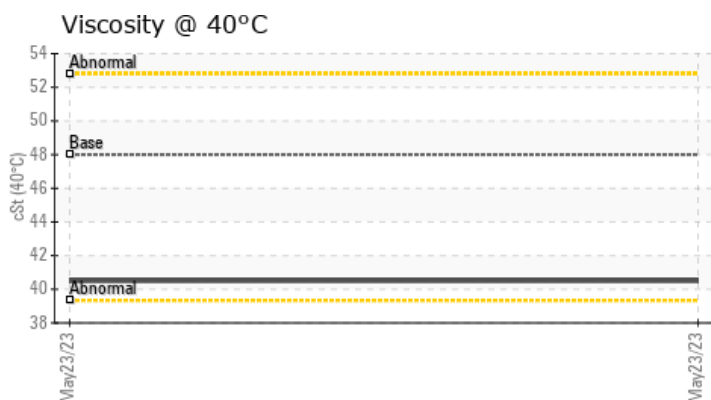
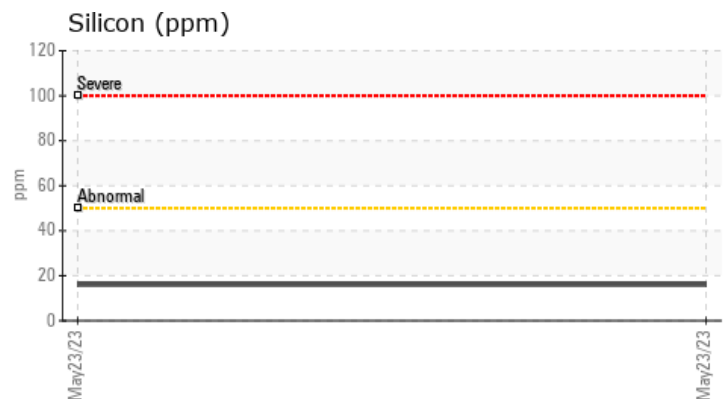
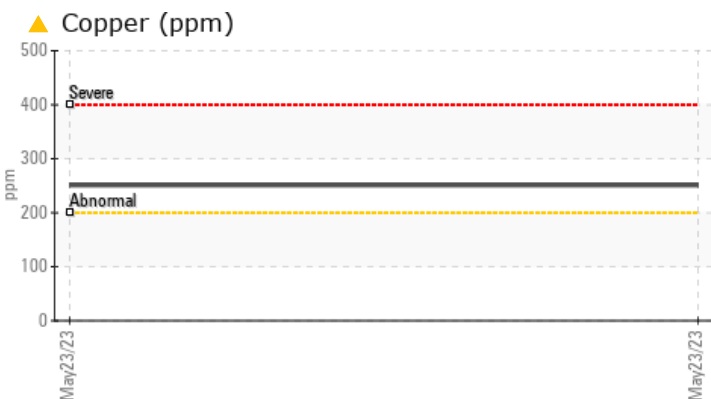
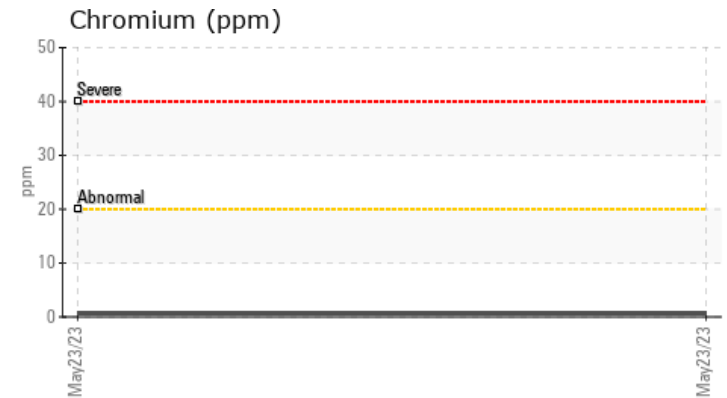
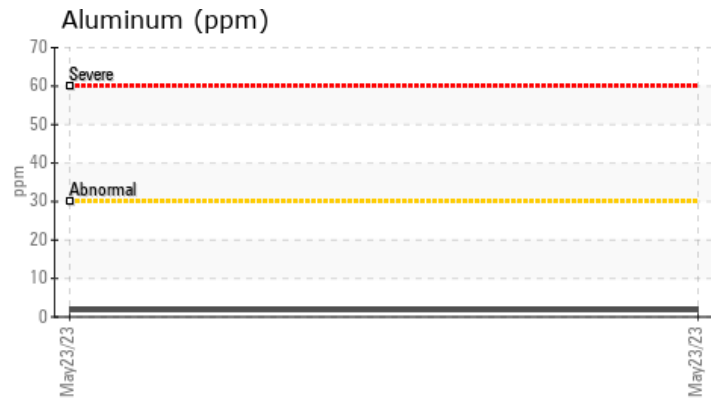
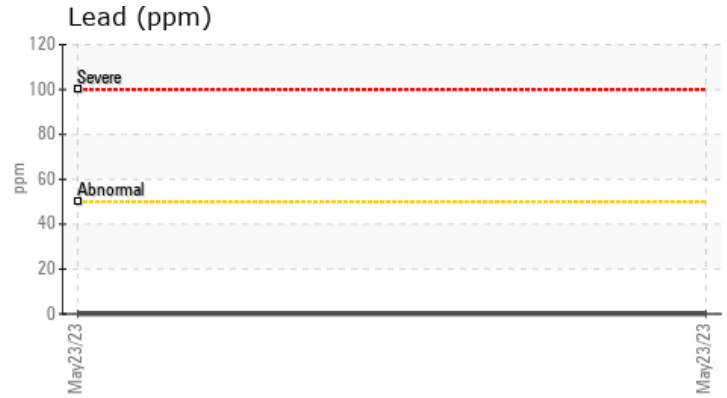
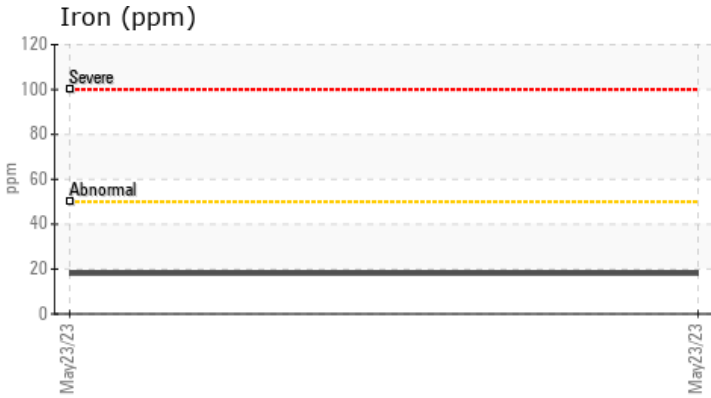
Depot: VOLVO0093
Unique No: 10486918
Signed: Don Baldrige
Report Date: 28 May 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352244 - HYDRAULIC SYSTEM



Sample No: VCP0007644

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007644	---	---	---
Sample Date	23 May 2023	---	---	---
Machine Hours	6193	---	---	---
Oil Hours	6193	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---



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OIL CONDITION

Visc @ 40°C	cSt	█ 45.9	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.38	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 6750	---	---	---
Particles >6µm		█ 1171	---	---	---
Particles >14µm		█ 79	---	---	---
ISO 4406:1999 (c)		20/17/13	---	---	---
Silicon	ppm	█ 10	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 0	---	---	---

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. 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	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	2	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	1656	---	---	---
Magnesium	ppm	15	---	---	---
Zinc	ppm	831	---	---	---
Phosphorus	ppm	684	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	2	---	---	---

Depot: VOLVO0093
Unique No: 10486512
Signed: Wes Davis
Report Date: 26 May 2023

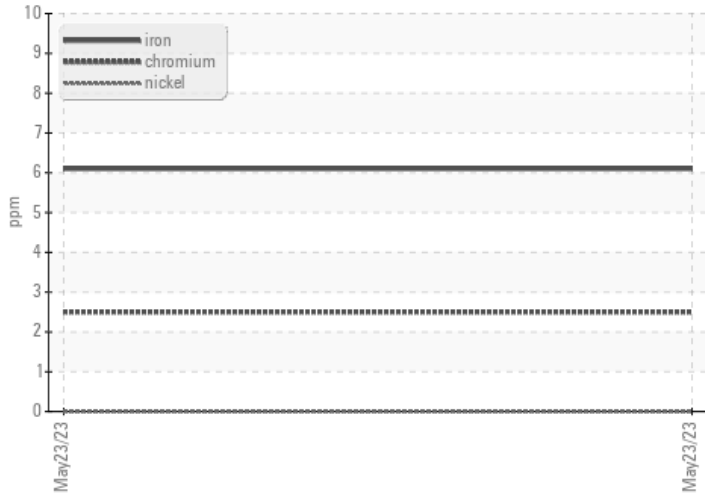


CONSTRUCTION EQUIPMENT

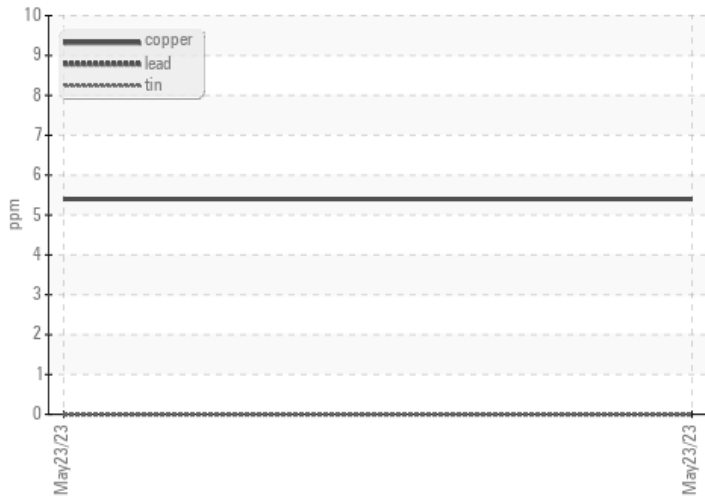


GRAPHS

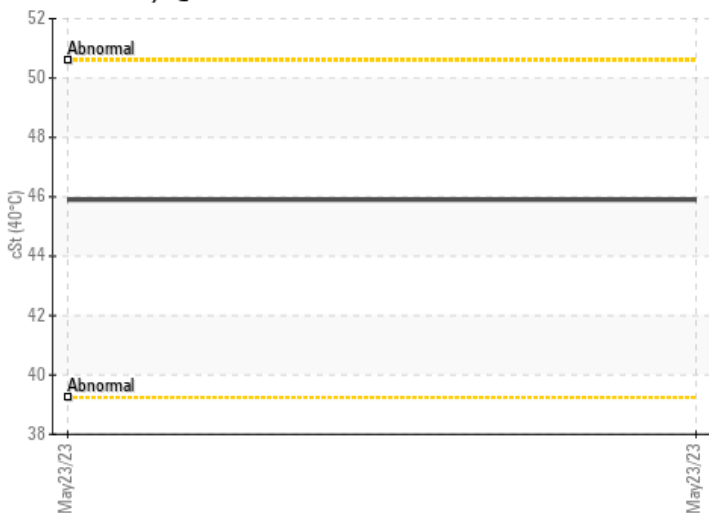
Ferrous Alloys



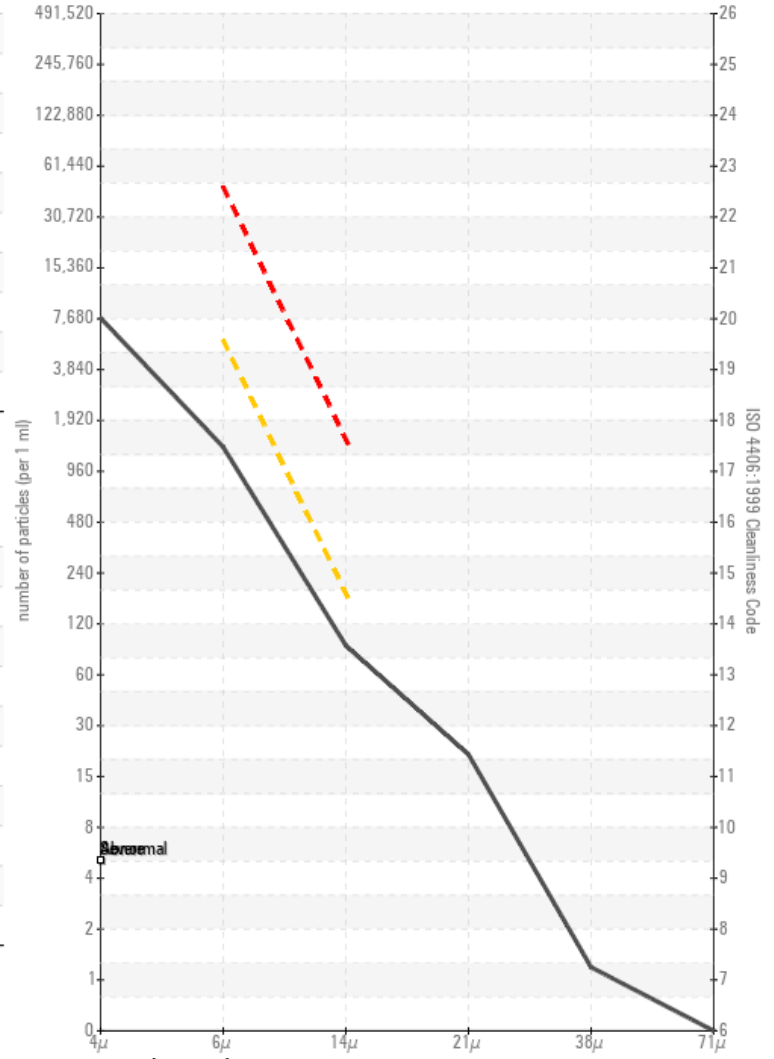
Non-ferrous Metals



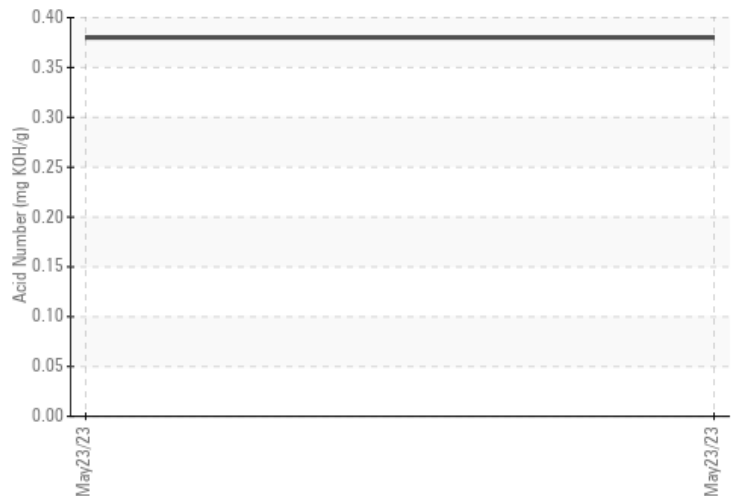
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352244 - FRONT AXLE



Sample No: VCP0007645

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007645	---	---	---
Sample Date	23 May 2023	---	---	---
Machine Hours	6193	---	---	---
Oil Hours	6193	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	■ 255	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ <1	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 0	---	---	---

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	■ 46	---	---	---
Copper	ppm	■ 0	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	16	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	59	---	---	---
Magnesium	ppm	23	---	---	---
Zinc	ppm	32	---	---	---
Phosphorus	ppm	264	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	11	---	---	---

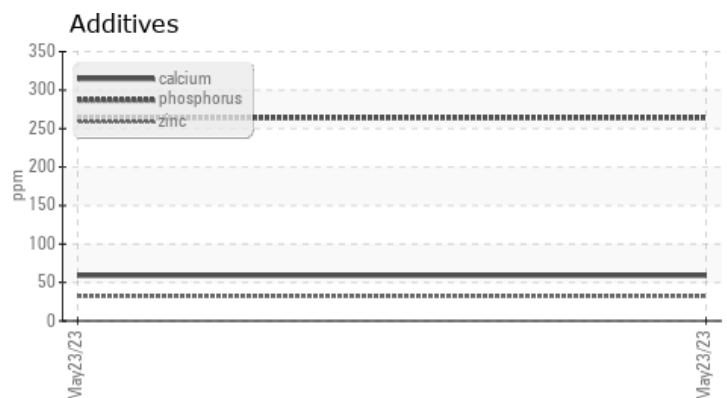
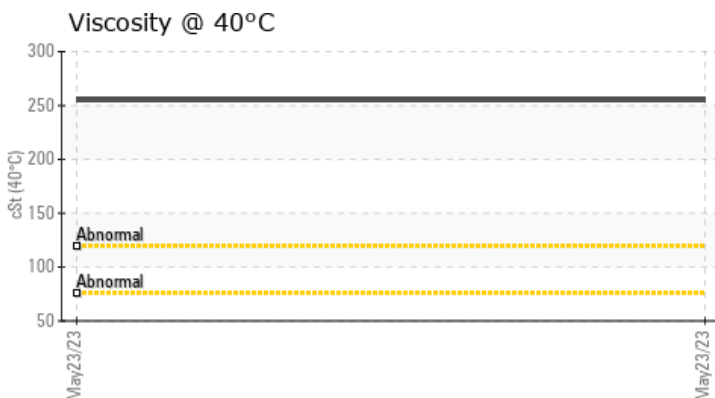
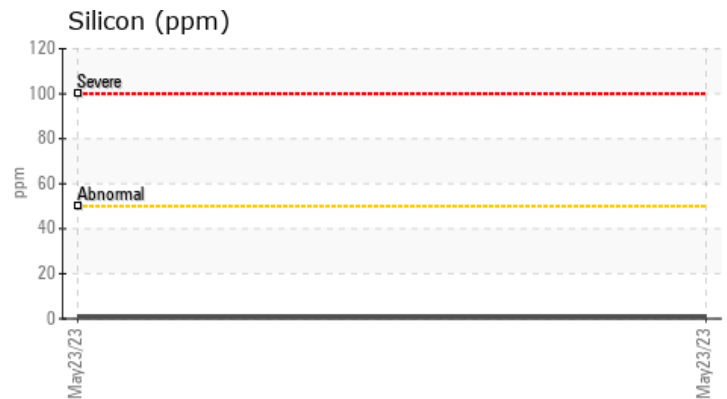
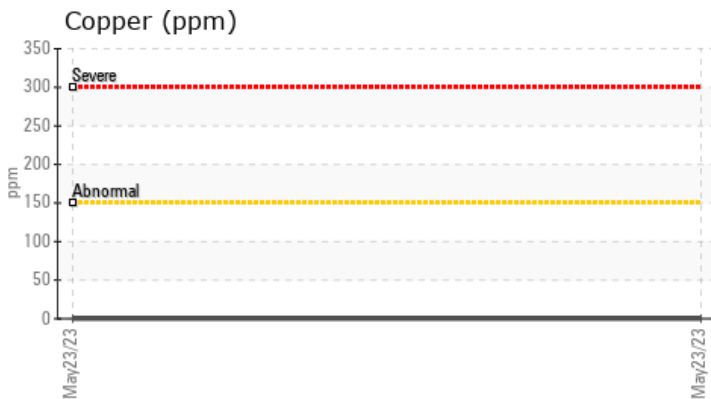
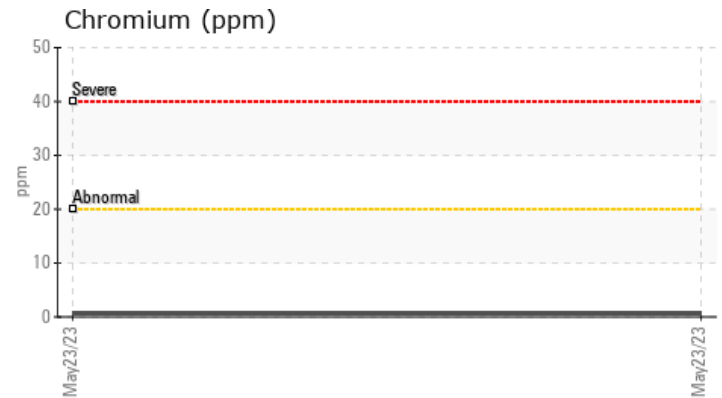
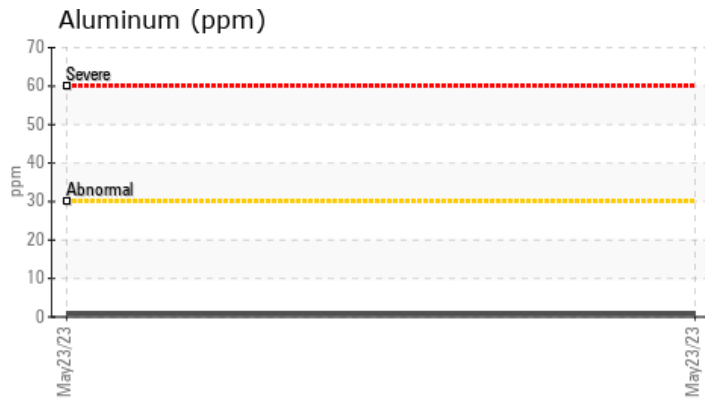
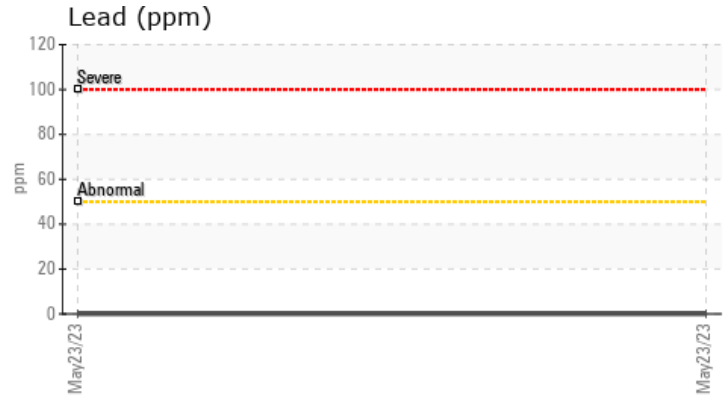
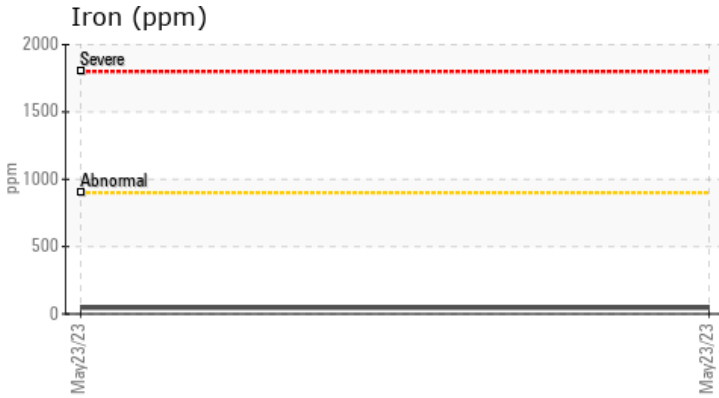
Depot: VOLVO0093
Unique No: 10486923
Signed: Don Baldrige
Report Date: 28 May 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352244 - BOGIE/CENTER AXLE



Sample No: VCP0007641
Oil Type: GEAR OIL SAE 80W140
Job No:



SAMPLE INFORMATION

Sample Number	VCP0007641	---	---	---
Sample Date	23 May 2023	---	---	---
Machine Hours	6193	---	---	---
Oil Hours	6193	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 219	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

Resample at the next service interval to monitor. 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	█ 113	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 11	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 165	---	---	---
Magnesium	ppm	32	---	---	---
Zinc	ppm	█ 112	---	---	---
Phosphorus	ppm	█ 810	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 112	---	---	---

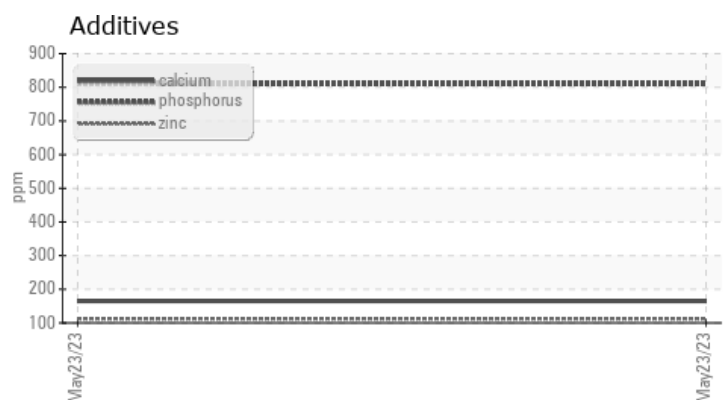
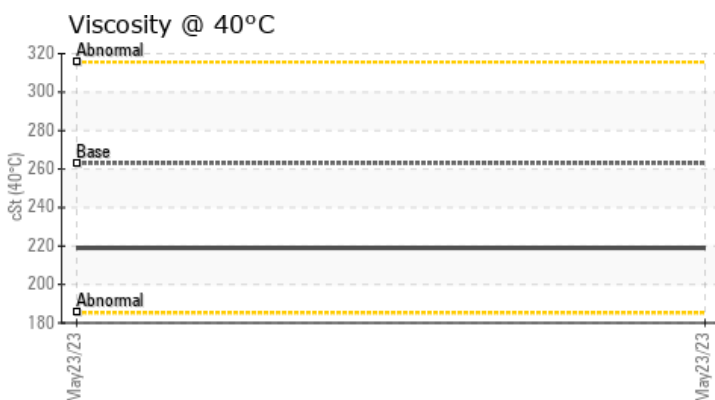
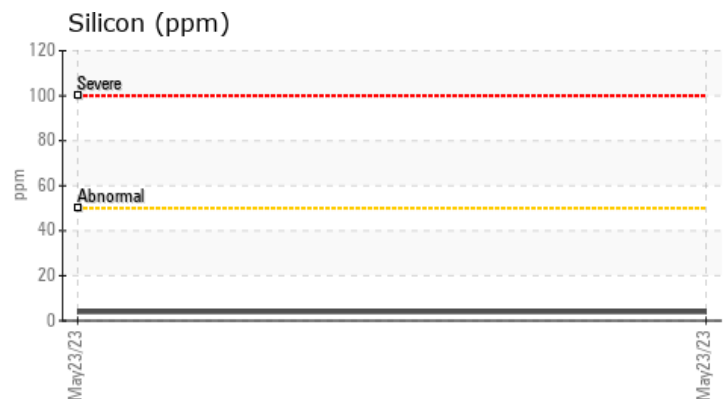
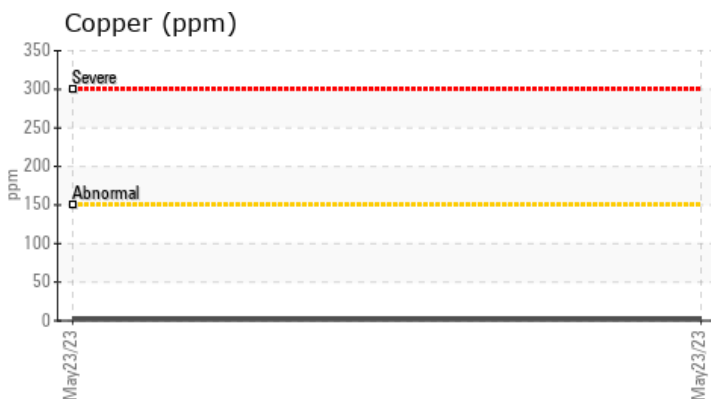
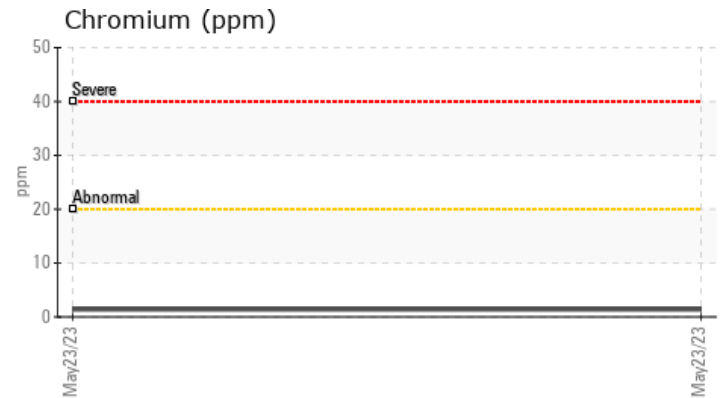
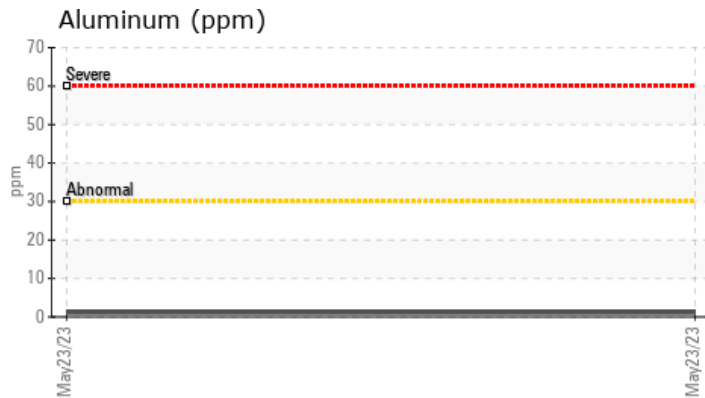
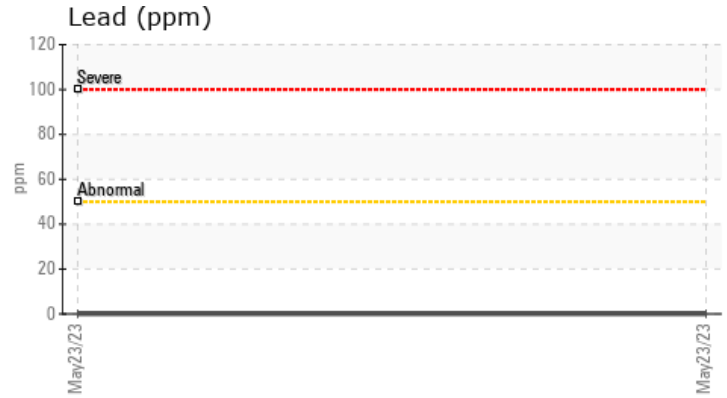
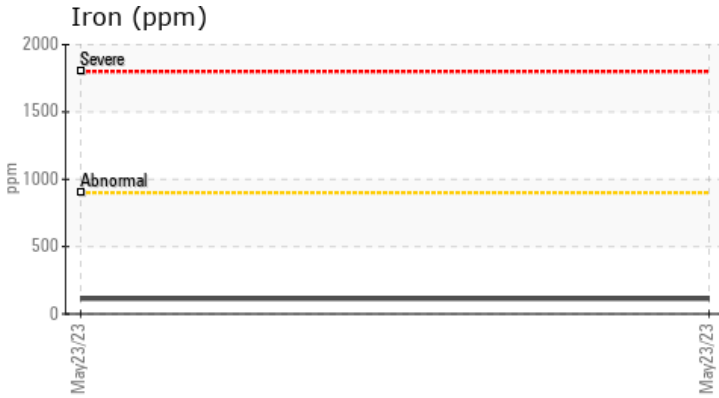
Depot: VOLVO0093
Unique No: 10486921
Signed: Don Baldrige
Report Date: 28 May 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352244 - REAR AXLE



Sample No: VCP0007646
Oil Type: GEAR OIL SAE 80W140
Job No:



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SAMPLE INFORMATION

Sample Number	VCP0007646	---	---	---
Sample Date	23 May 2023	---	---	---
Machine Hours	6193	---	---	---
Oil Hours	6193	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 229	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 98	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 10	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 7	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 164	---	---	---
Magnesium	ppm	28	---	---	---
Zinc	ppm	█ 109	---	---	---
Phosphorus	ppm	█ 826	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 117	---	---	---

Diagnosis

Resample at the next service interval to monitor. 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.

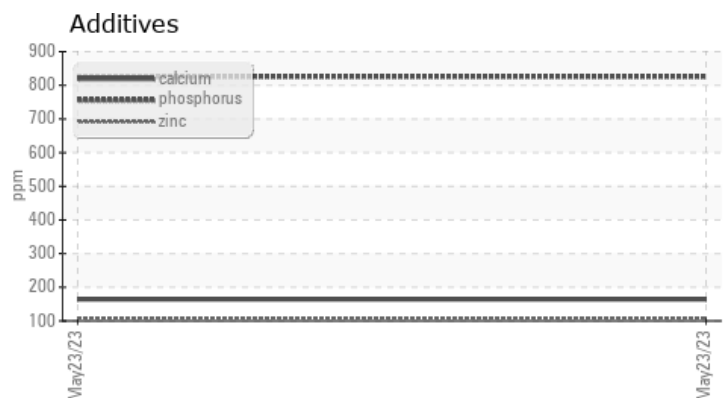
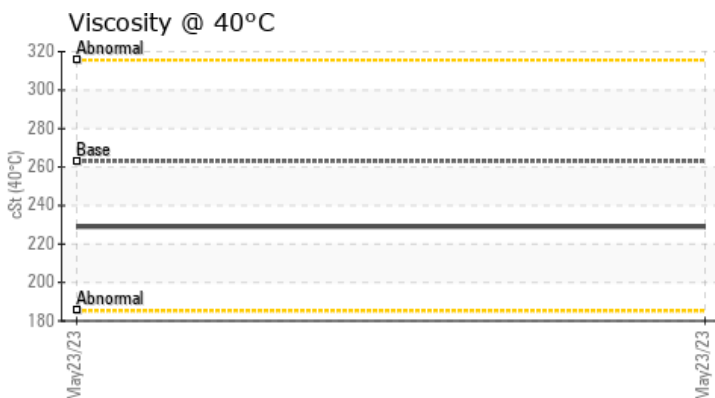
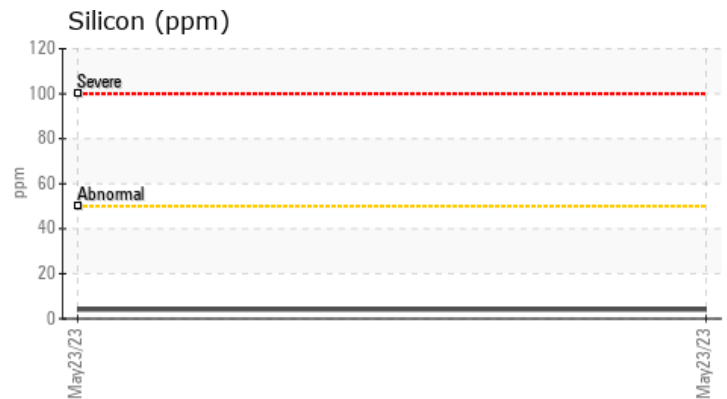
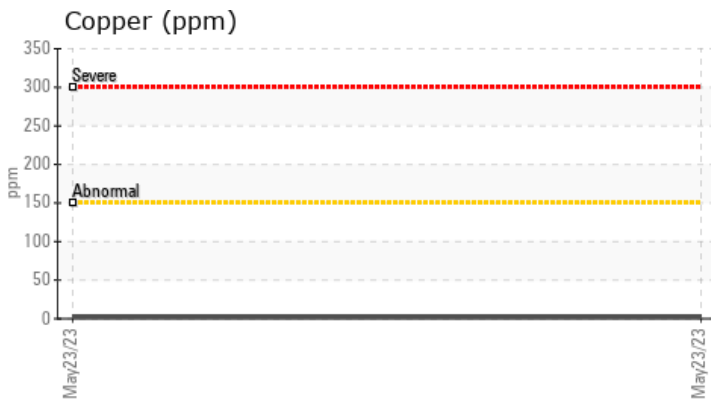
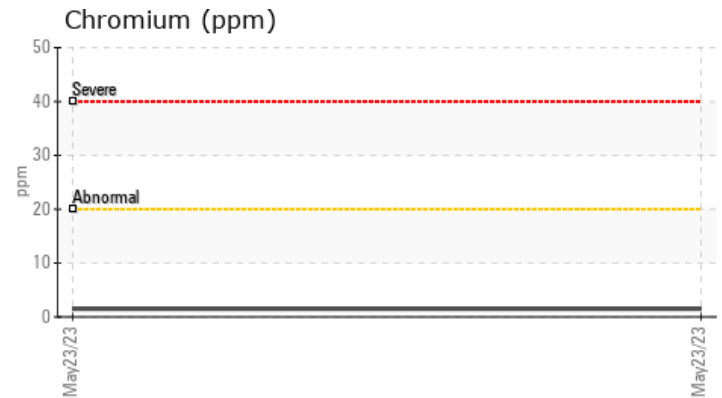
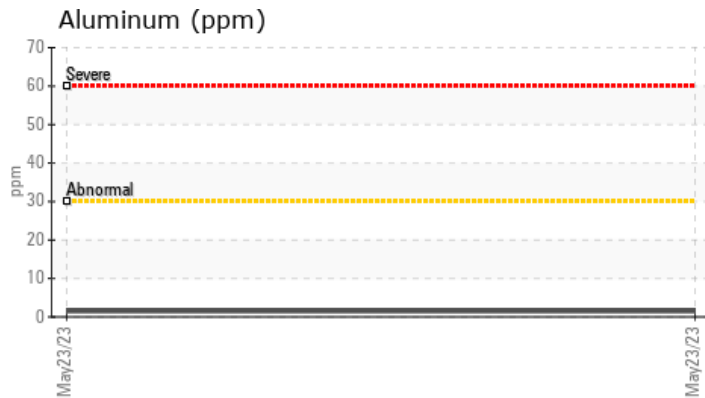
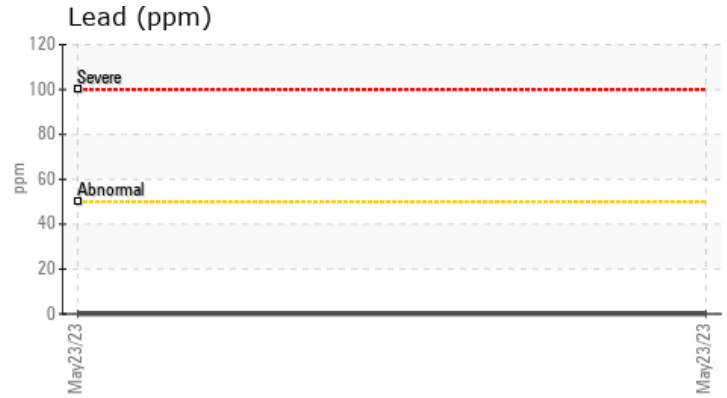
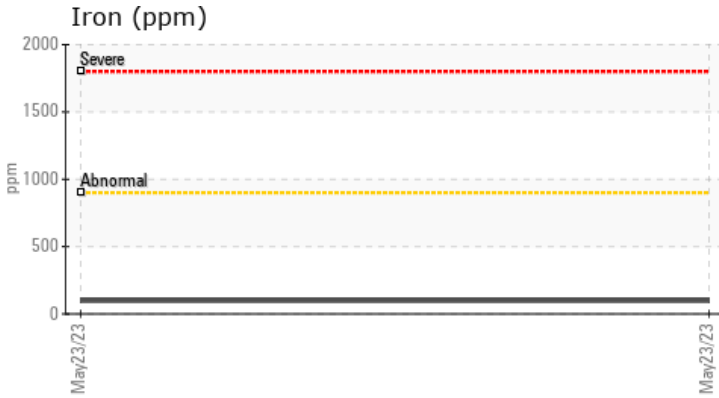
Depot: VOLVO0093
Unique No: 10486914
Signed: Don Baldrige
Report Date: 28 May 2023



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

392511 VOLVO A45GFS 352244 - DROP BOX



Sample No: VCP413405
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 392511



SAMPLE INFORMATION

Sample Number	VCP413405	VCP0007643	---	---
Sample Date	25 Oct 2023	23 May 2023	---	---
Machine Hours	6359	6193	---	---
Oil Hours	1000	6193	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	233	226	---	---
-------------	-----	------------	-----	-----	-----



CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	6	5	---	---
Sodium	ppm	8	4	---	---
Potassium	ppm	2	<1	---	---

Diagnosis

Resample at the next service interval to monitor. 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	341	334	---	---
Copper	ppm	2	2	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	10	10	---	---
Chromium	ppm	5	5	---	---
Molybdenum	ppm	22	23	---	---
Nickel	ppm	3	2	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	4	4	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	88	119	---	---
Magnesium	ppm	25	27	---	---
Zinc	ppm	63	75	---	---
Phosphorus	ppm	294	319	---	---
Barium	ppm	0	0	---	---
Boron	ppm	31	29	---	---

Depot: VOLVO0093
Unique No: 10715043
Signed: Sean Felton
Report Date: 31 Oct 2023

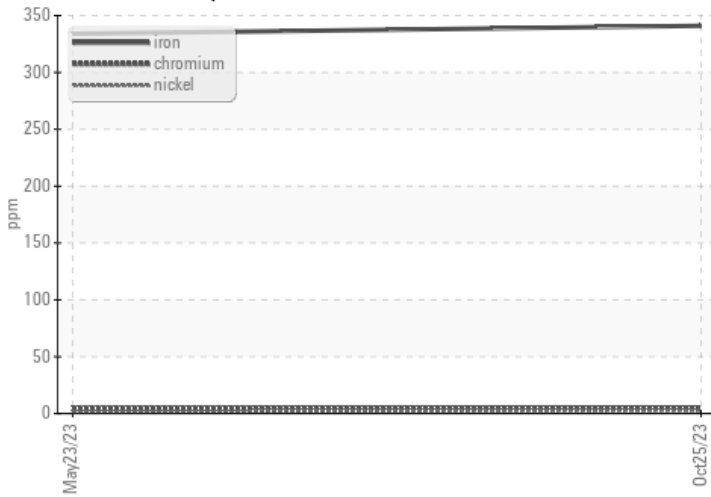


CONSTRUCTION EQUIPMENT

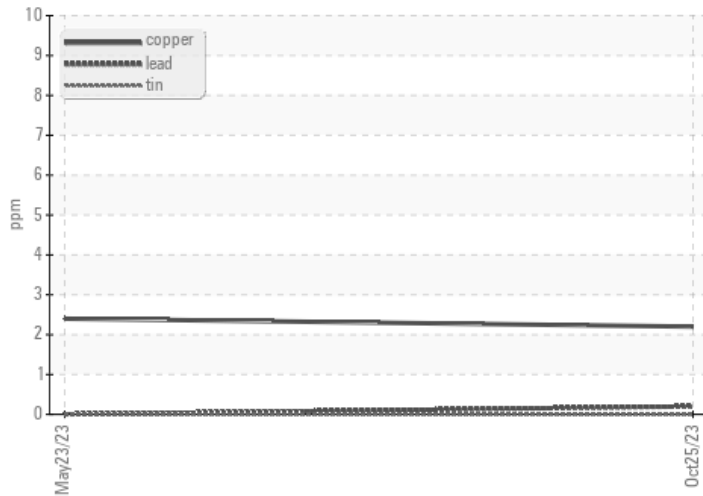


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

