



CONSTRUCTION EQUIPMENT

SENNEBOGEN 830 830.0.3516 - COOLANT



Sample No: VCP434979
Oil Type: CONVENTIONAL COOLANT
Job No:



SAMPLE INFORMATION

Sample Number	VCP434979	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY
 1035 WYLIE DRIVE
 BLOOMINGTON, IL
 US 61705
 Contact: MIKE MARTIN
 mike.martin@altaequipment.com
 T:
 F:



COOLANT CONDITION

pH	Scale 0-14	■ 8.36	---	---	---
Reserve Alkalinity	Scale 0-20	---	---	---	---
Nitrites	ppm	■ 1616	---	---	---
Percentage Glycol	%	■ 49.1	---	---	---
Freezing Point	°C	■ -33	---	---	---

Diagnosis

The fluid is suitable for further service. There is no indication of any contamination in the coolant. The carboxylate level of this fluid is acceptable. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.



CONTAMINATION

Coolant Appearance	normal	---	---	---
Coolant Color	Green	---	---	---

Depot: VOLVO5054
Unique No: 10983650
Signed: Doug Bogart
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT

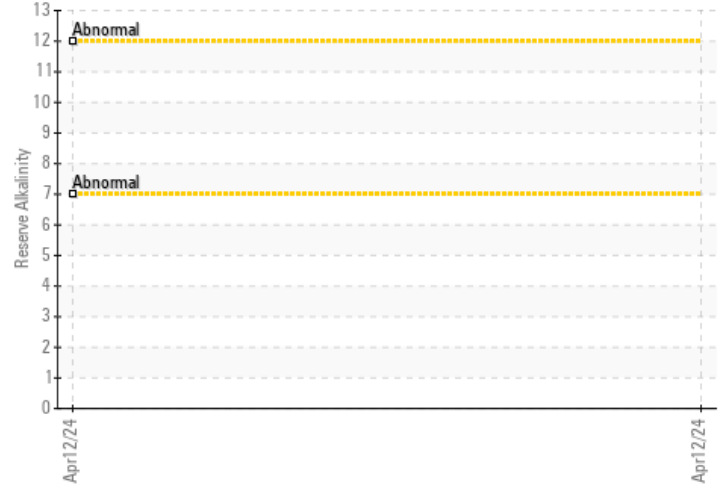


GRAPHS

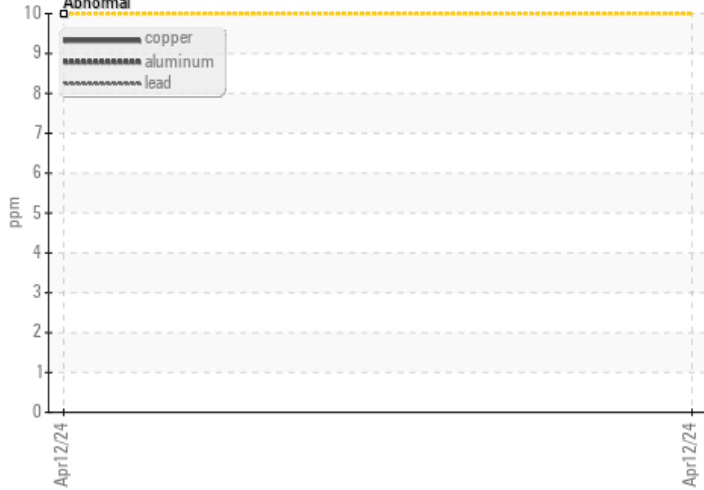
Iron/Tin/Silver



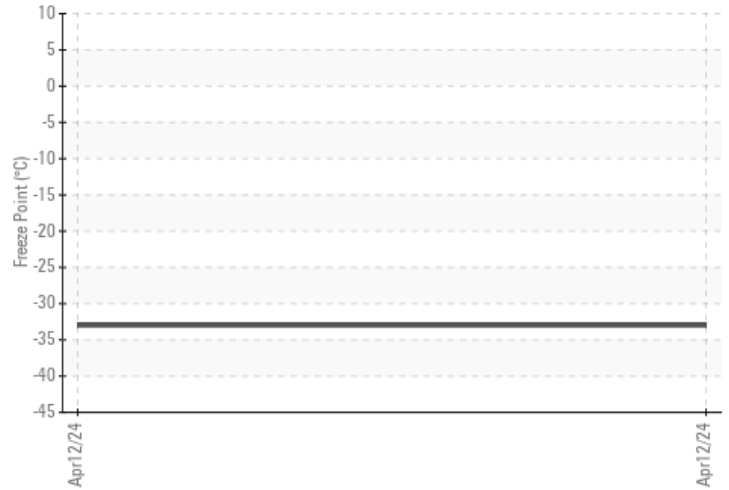
Reserve Alkalinity



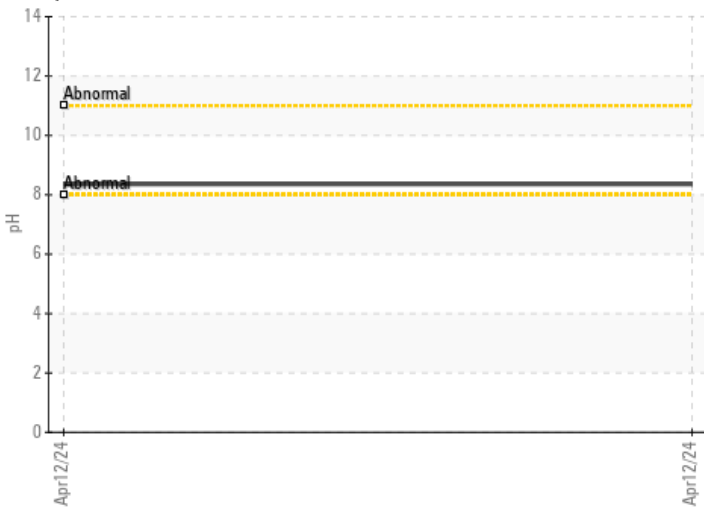
Copper/Aluminum/Lead



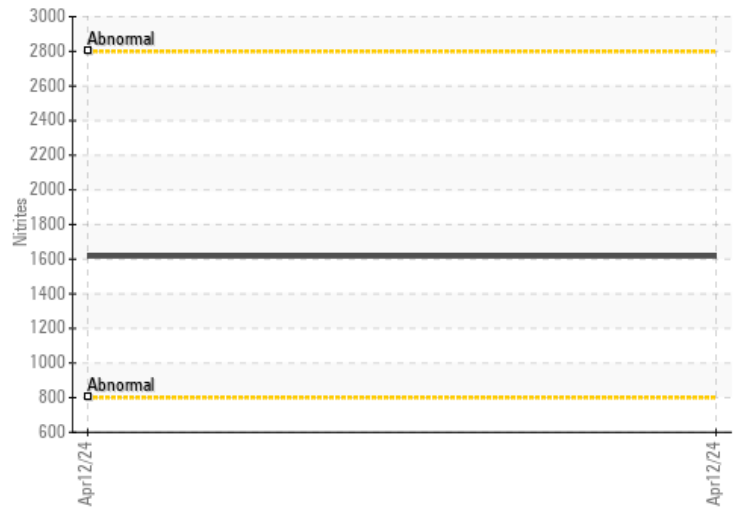
Freeze Point



pH



Nitrites





CONSTRUCTION EQUIPMENT

SWA473401-1 ALTER BA SENNEBOGEN 830 830.0.35 16 - DIESEL ENGINE



Sample No: VCP434993
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA473401-1 ALTER BA



SAMPLE INFORMATION

Sample Number	VCP434993	VCP434960	---	---
Sample Date	12 Apr 2024	04 Dec 2023	---	---
Machine Hours	2053	1514	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
 BLOOMINGTON, IL
 US 61705

Contact: JUSTIN PERRY
 justin.perry@altg.com
 T: (309)533-9285
 F:



OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	█ 12.6	---	---
Base Number (BN)	mg KOH/g	█ 8.4	█ 9.9	---	---
Oxidation (PA)	%	64	85	---	---

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	58	57	---	---
Sulfation (PA)	%	54	64	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 7	---	---
Sodium	ppm	█ <1	█ 3	---	---
Potassium	ppm	█ 1	█ <1	---	---



WEAR METALS

Iron	ppm	█ 13	█ 9	---	---
Copper	ppm	█ 1	█ <1	---	---
Lead	ppm	█ 1	█ 0	---	---
Tin	ppm	█ 1	█ <1	---	---
Aluminum	ppm	█ 1	█ 1	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ 55	█ 38	---	---
Nickel	ppm	█ 1	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1039	█ 1581	---	---
Magnesium	ppm	█ 842	█ 488	---	---
Zinc	ppm	█ 1127	█ 1084	---	---
Phosphorus	ppm	█ 996	█ 905	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 3	█ 55	---	---

Depot: VOLVO5054
Unique No: 10982932
Signed: Sean Felton
Report Date: 22 Apr 2024

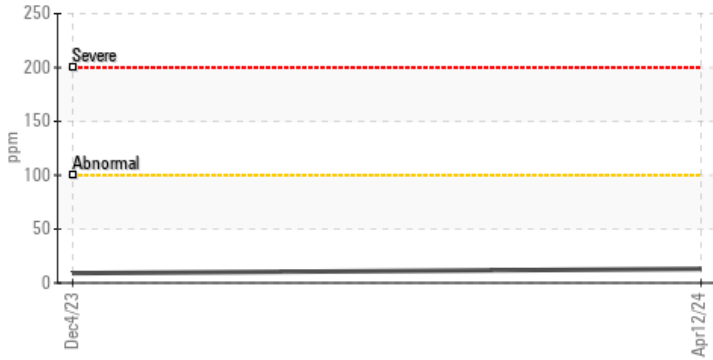


CONSTRUCTION EQUIPMENT



GRAPHS

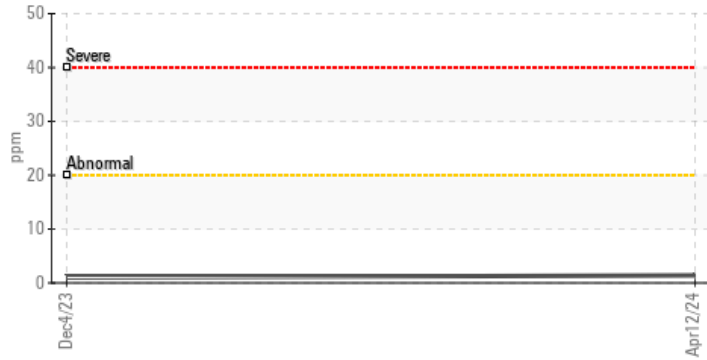
Iron (ppm)



Lead (ppm)



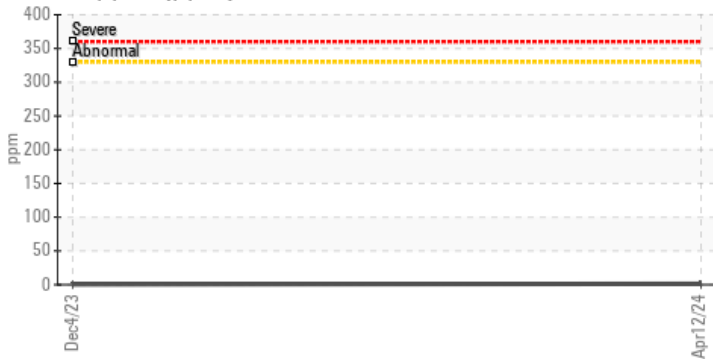
Aluminum (ppm)



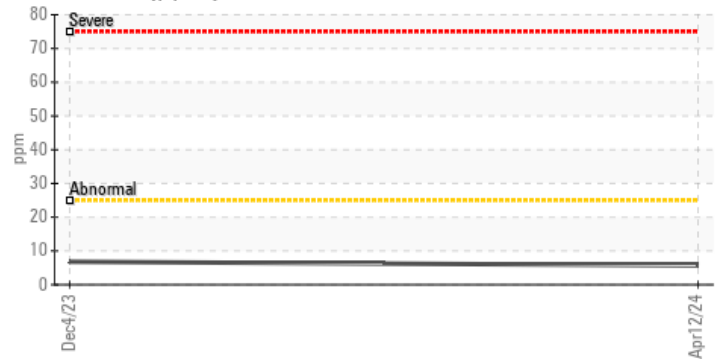
Chromium (ppm)



Copper (ppm)



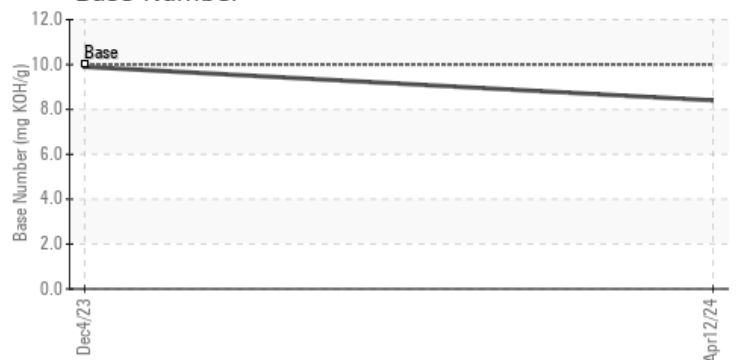
Silicon (ppm)



Viscosity @ 100°C



Base Number



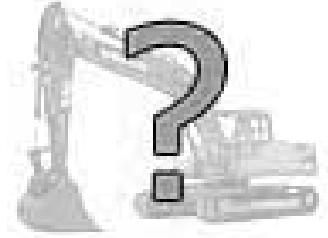


CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - TRANSMISSION (MANUAL)



Sample No: VCP434631
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP434631	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
 BLOOMINGTON, IL
 US 61705

Contact: MIKE MARTIN
 mike.martin@altaequipment.com

T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 62.8	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	█ 30	---	---	---
Potassium	ppm	█ 4	---	---	---

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.



WEAR METALS

Iron	ppm	█ 133	---	---	---
Copper	ppm	█ 36	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 20	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 23	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 2384	---	---	---
Magnesium	ppm	█ 231	---	---	---
Zinc	ppm	█ 1085	---	---	---
Phosphorus	ppm	█ 1102	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 52	---	---	---

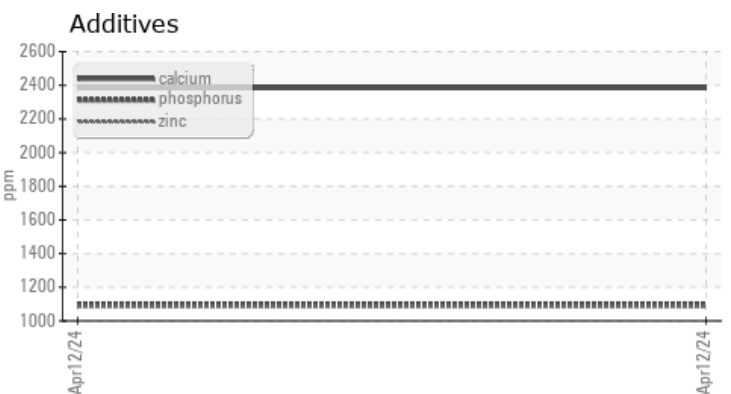
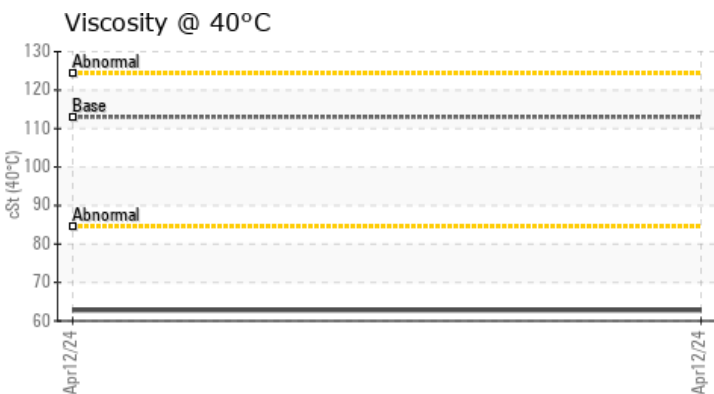
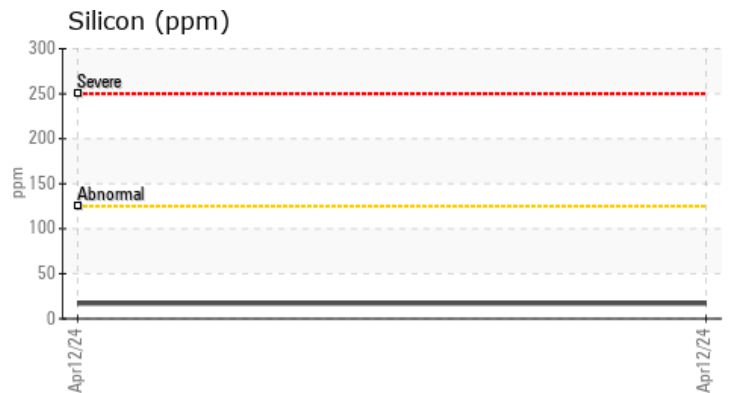
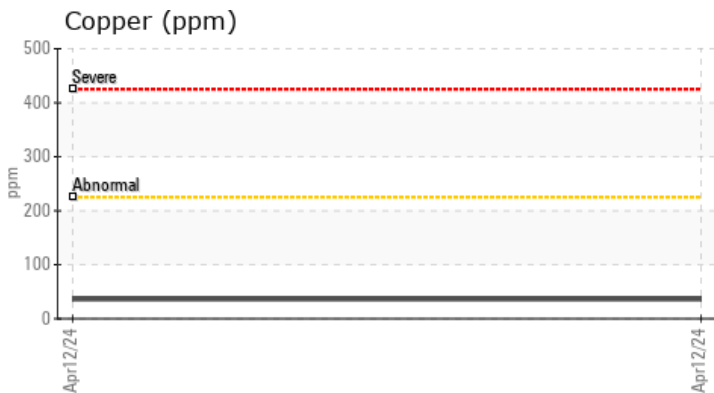
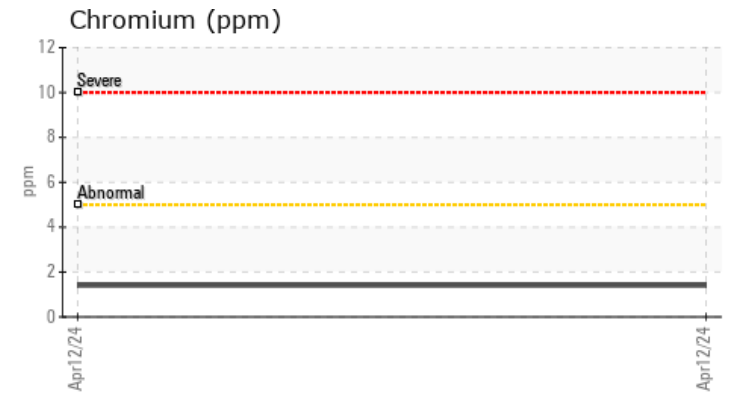
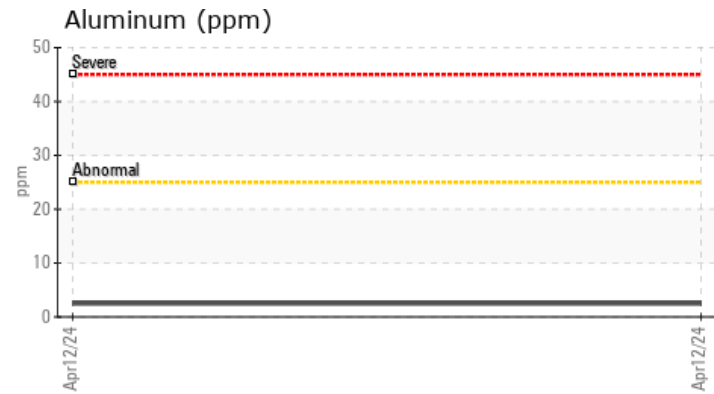
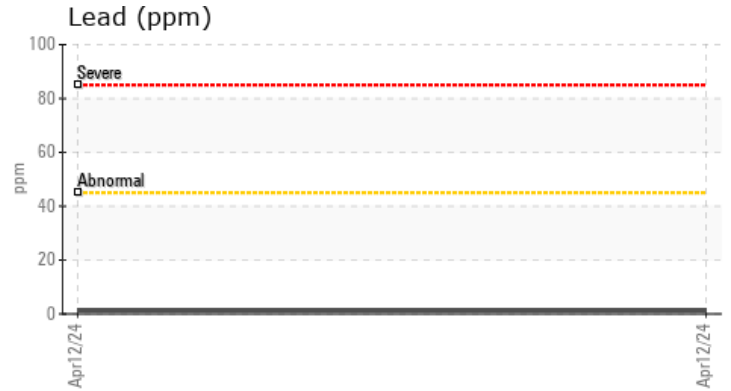
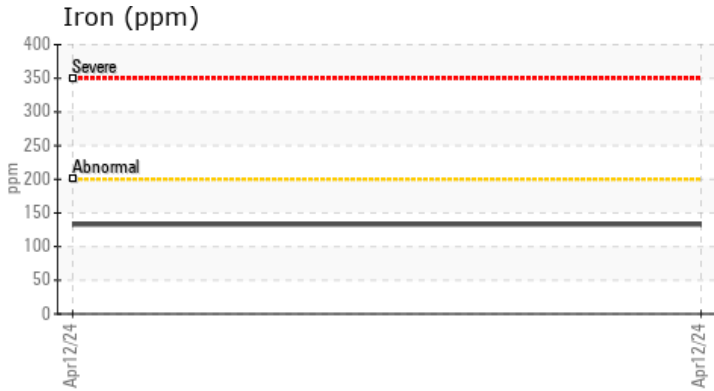
Depot: VOLVO5054
Unique No: 10983618
Signed: Sean Felton
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS



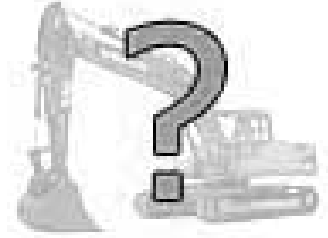


CONSTRUCTION EQUIPMENT

473401 ALTER BARTONV SENNEBOGEN 830 830.0.3516 - HYDRAULIC SYSTEM



Sample No: VCP434750
Oil Type: VOLVO/SHELL ISO 46
Job No: 473401 ALTER BARTONV



SAMPLE INFORMATION

Sample Number	VCP434750	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	2000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
 BLOOMINGTON, IL
 US 61705

Contact: JUSTIN PERRY
 justin.perry@altg.com
 T: (309)533-9285
 F:



OIL CONDITION

Visc @ 40°C	cSt	● 36.5	---	---	---
Acid Number (AN)	mg KOH/g	■ 1.02	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		■ 1968	---	---	---
Particles >6µm		■ 356	---	---	---
Particles >14µm		■ 29	---	---	---
ISO 4406:1999 (c)		18/16/12	---	---	---
Silicon	ppm	■ 1	---	---	---
Sodium	ppm	■ 5	---	---	---
Potassium	ppm	■ <1	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 amount and size of particulates present in the system are acceptable. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

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



ADDITIVES

Calcium	ppm	1041	---	---	---
Magnesium	ppm	4	---	---	---
Zinc	ppm	657	---	---	---
Phosphorus	ppm	541	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	0	---	---	---

Depot: VOLVO5054
Unique No: 10983087
Signed: Jonathan Hester
Report Date: 24 Apr 2024

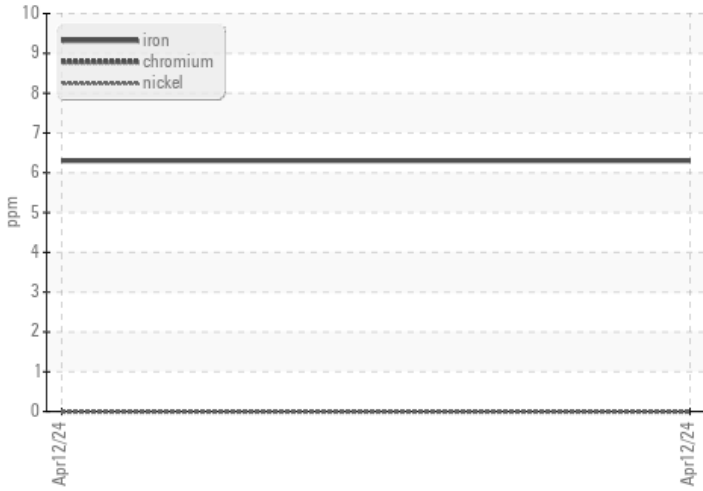


CONSTRUCTION EQUIPMENT

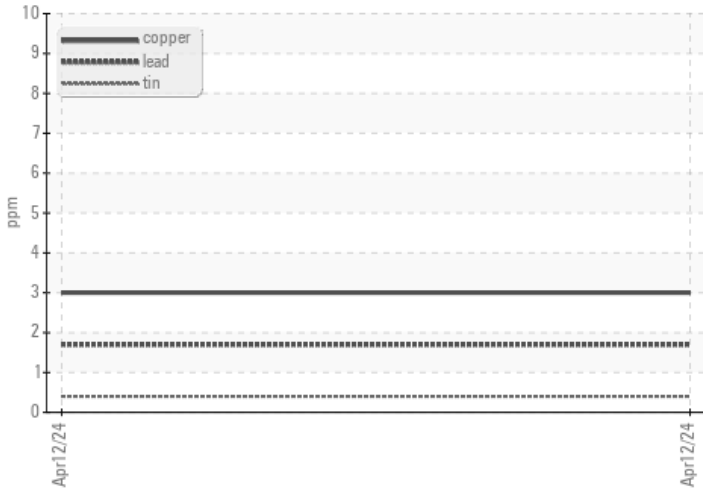


VOLVO GRAPHS

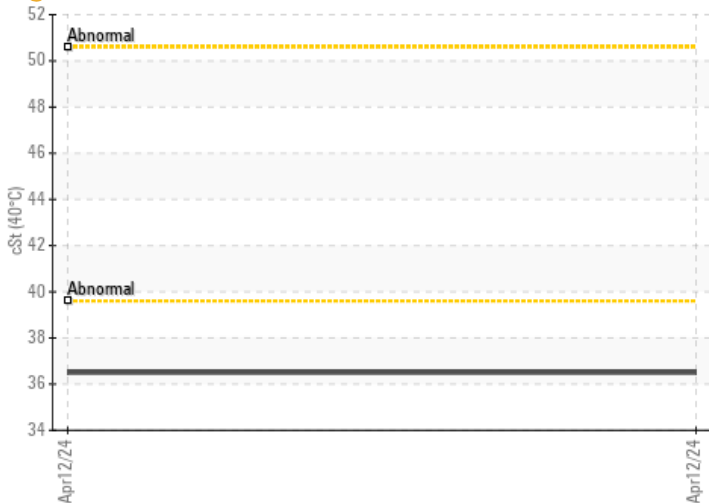
Ferrous Alloys



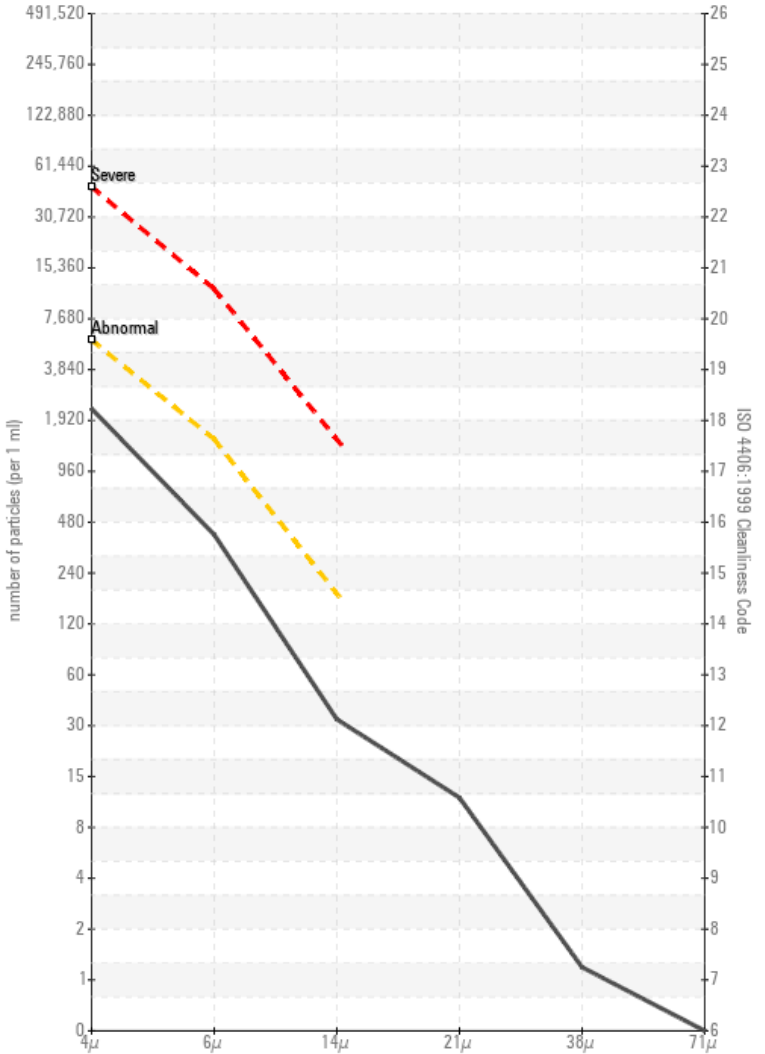
Non-ferrous Metals



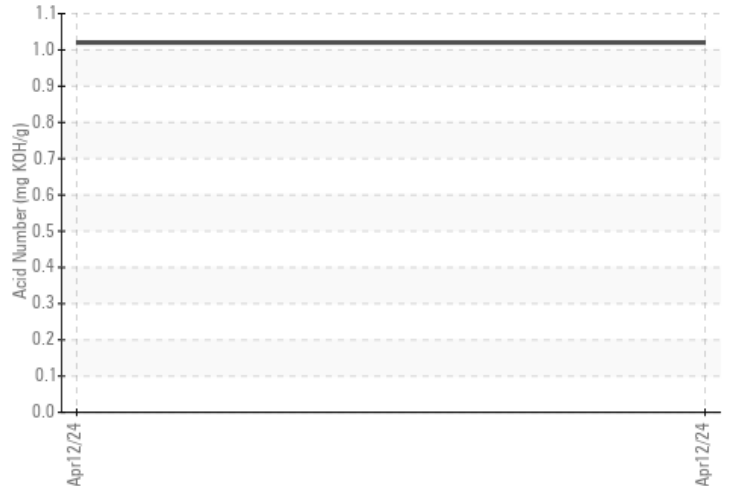
Viscosity @ 40°C



Particle Count



Acid Number





CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - SWING DRIVE



Sample No: VCP432726
Oil Type: SHELL OMALA S4 GX 220
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP432726	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705

Contact: JUSTIN PERRY
justin.perry@altg.com

T: (309)533-9285

F:



OIL CONDITION

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



CONTAMINATION

Water	%	▲ 0.526	---	---	---
Silicon	ppm	■ 7	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	▲ 716	---	---	---
Copper	ppm	▲ 140	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	▲ 14	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 4	---	---	---
Molybdenum	ppm	■ 1	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 8	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	21	---	---	---
Magnesium	ppm	■ 4	---	---	---
Zinc	ppm	■ 114	---	---	---
Phosphorus	ppm	■ 435	---	---	---
Barium	ppm	■ 3	---	---	---
Boron	ppm	■ 31	---	---	---

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. Appearance is hazy. There is a moderate concentration of water present in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054

Unique No: 10983587

Signed: Sean Felton

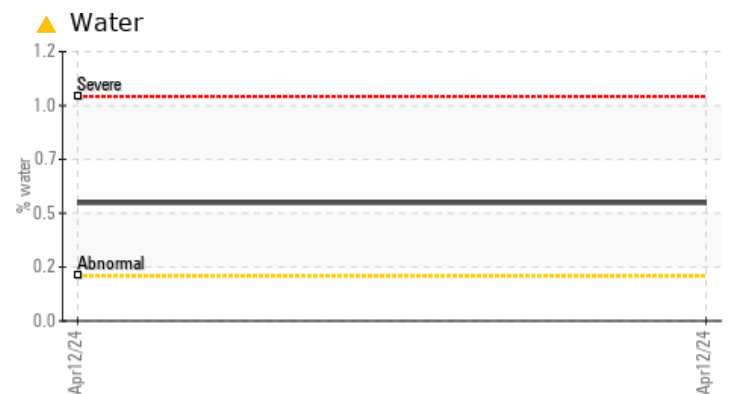
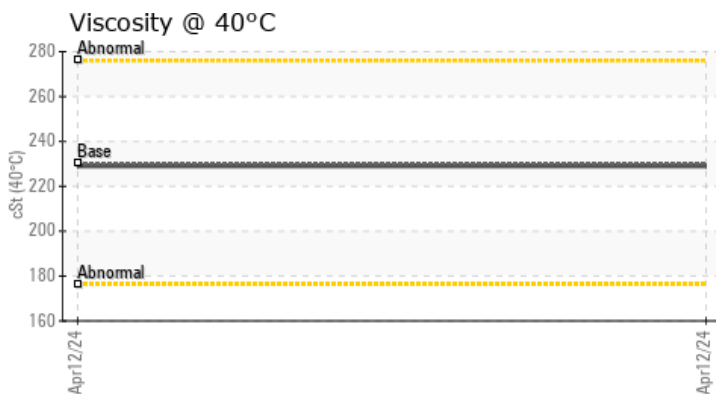
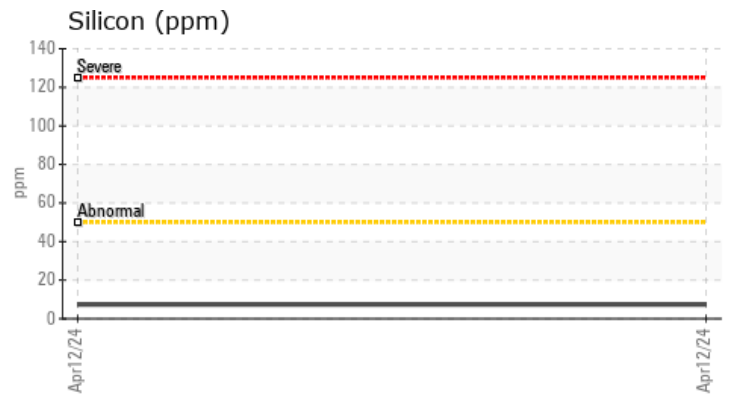
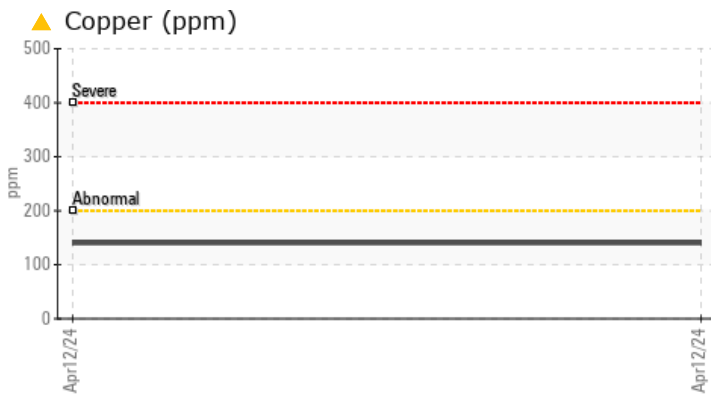
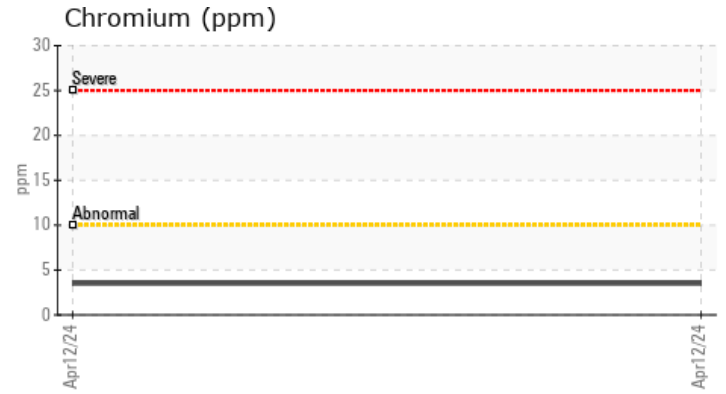
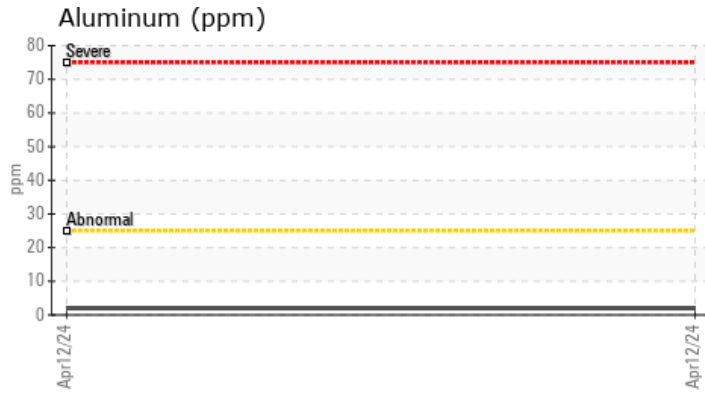
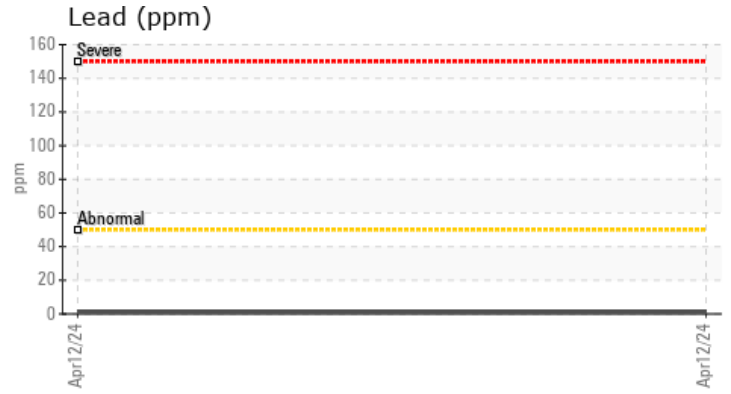
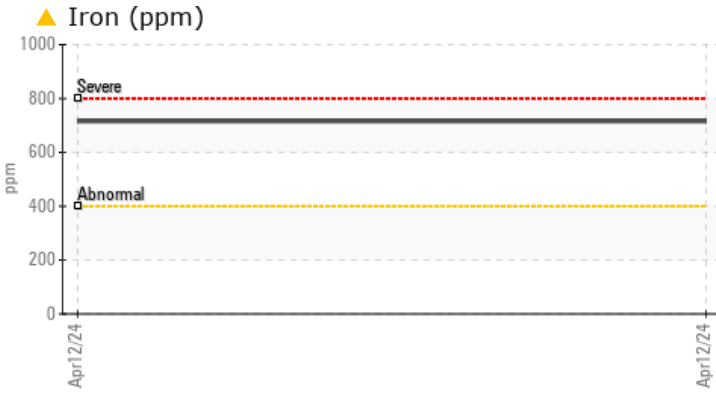
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - FRONT LEFT FINAL DRIVE



Sample No: VCP434623
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP434623	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705

Contact: JUSTIN PERRY
justin.perry@altg.com
T: (309)533-9285

F:



OIL CONDITION

Visc @ 40°C	cSt	█ 149	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 139	---	---	---
Copper	ppm	▲ 242	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 15	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 11	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 159	---	---	---
Phosphorus	ppm	█ 1822	---	---	---
Barium	ppm	█ 5	---	---	---
Boron	ppm	█ 173	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

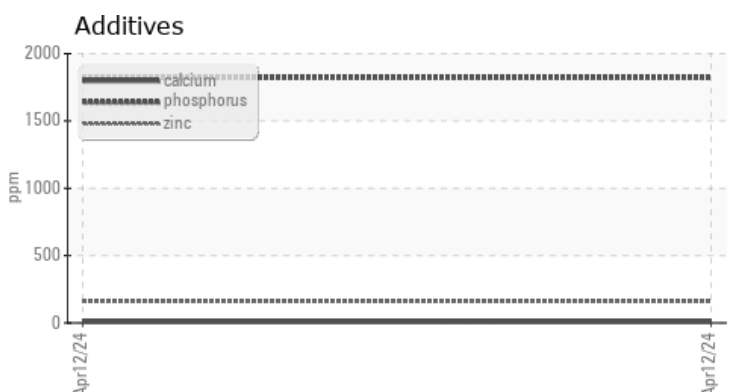
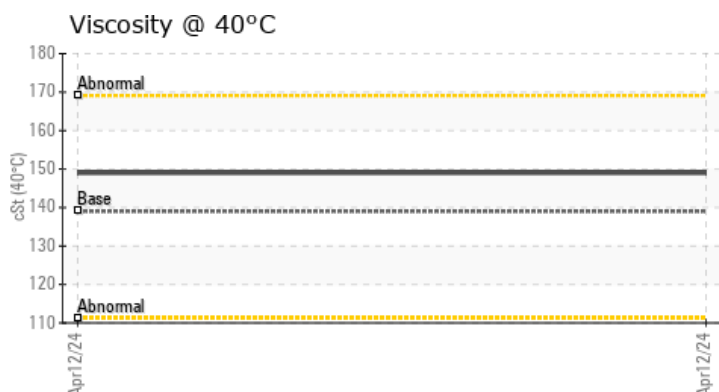
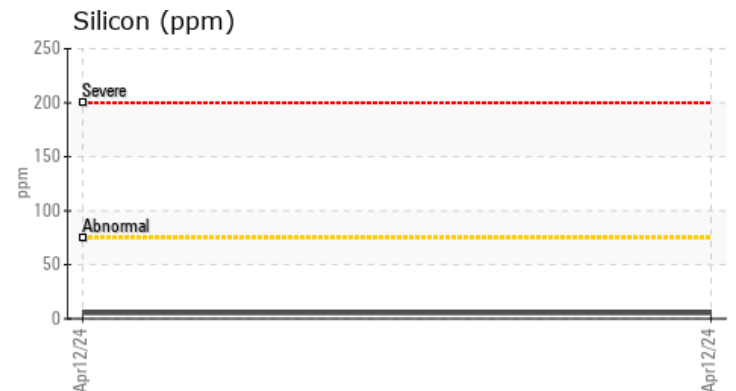
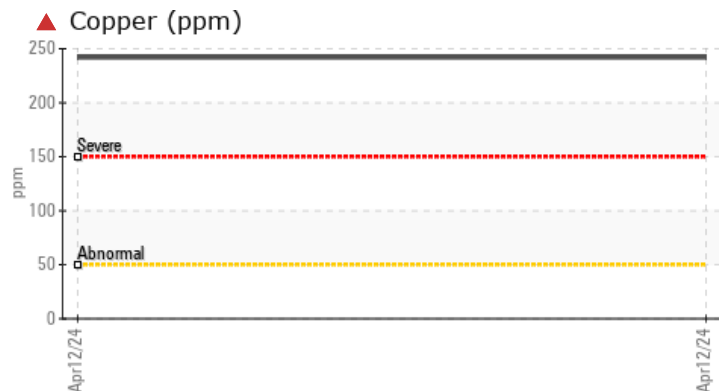
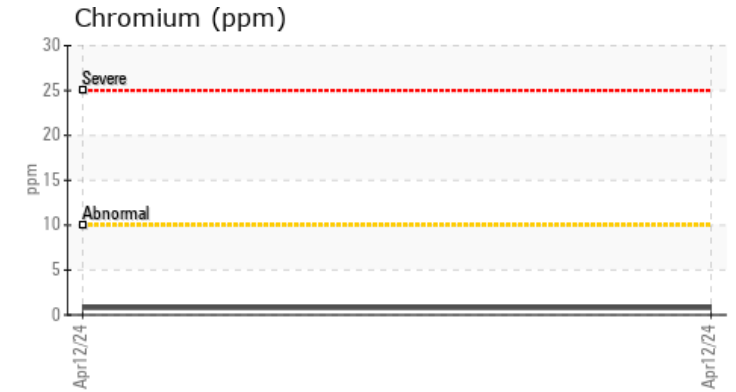
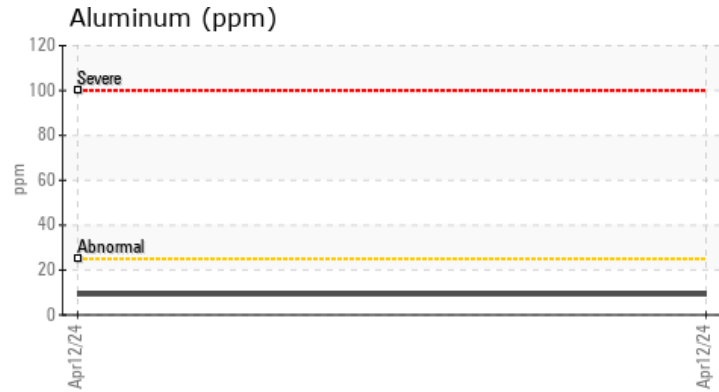
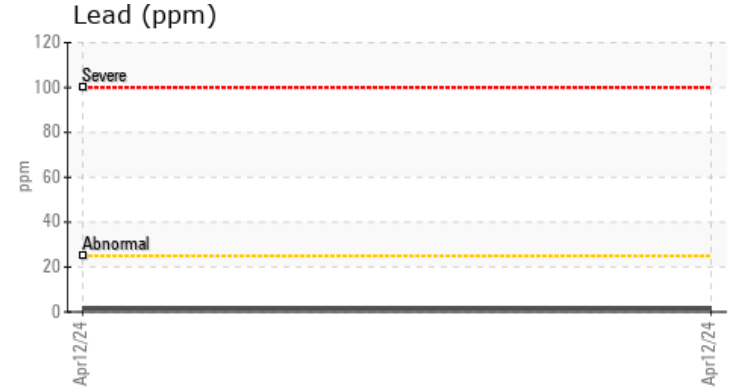
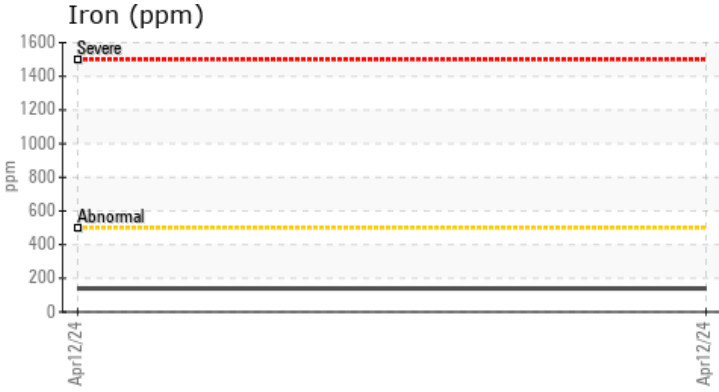
Depot: VOLVO5054
Unique No: 10983581
Signed: Sean Felton
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS



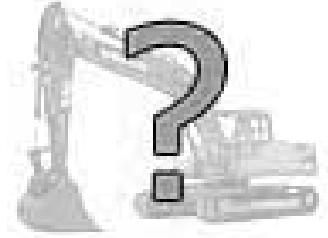


CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - FRONT AXLE



Sample No: VCP434634
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP434634	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705

Contact: JUSTIN PERRY
justin.perry@altg.com
T: (309)533-9285
F:



OIL CONDITION

Visc @ 40°C	cSt	█ 140	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

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



WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 23	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 13	---	---	---
Magnesium	ppm	█ 1	---	---	---
Zinc	ppm	█ 19	---	---	---
Phosphorus	ppm	1745	---	---	---
Barium	ppm	█ 17	---	---	---
Boron	ppm	█ 182	---	---	---

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.

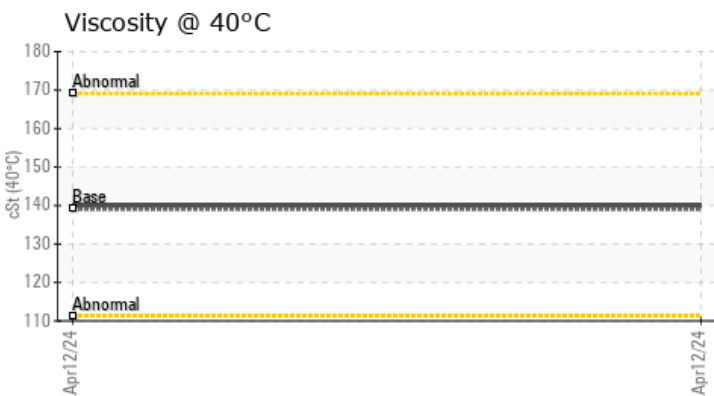
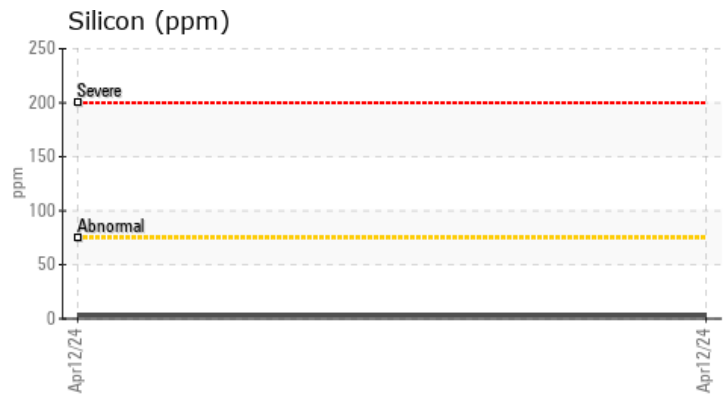
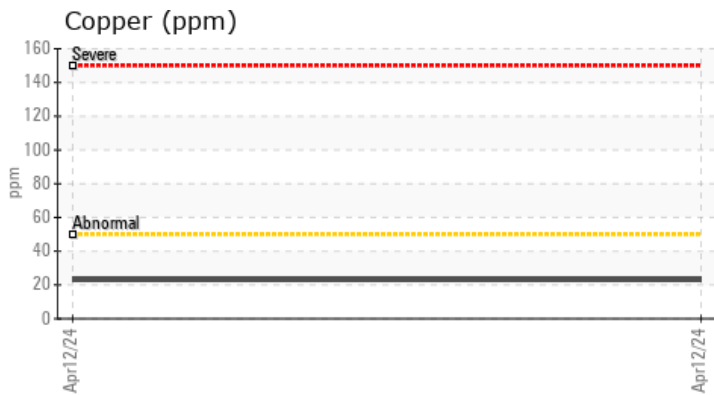
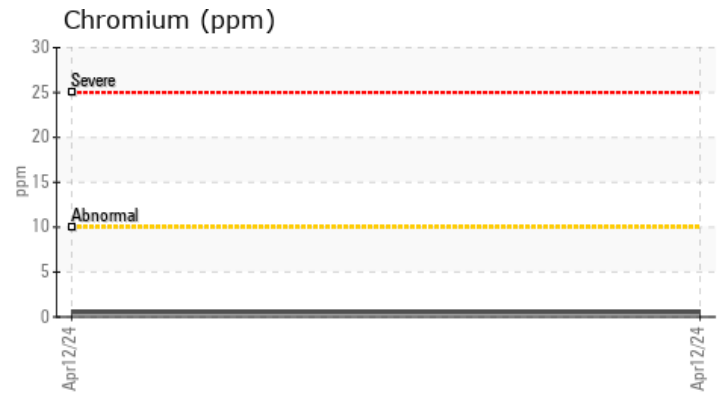
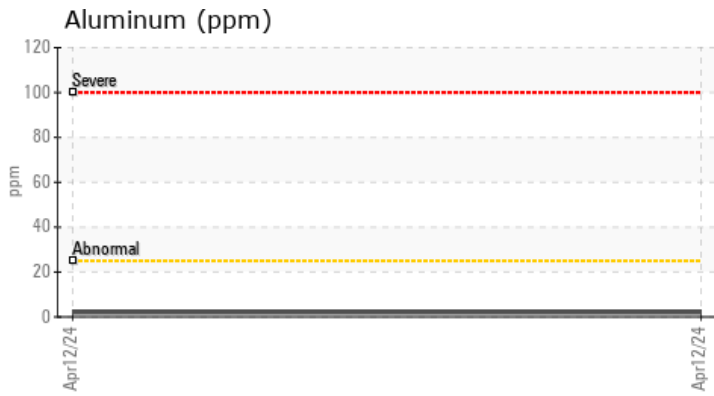
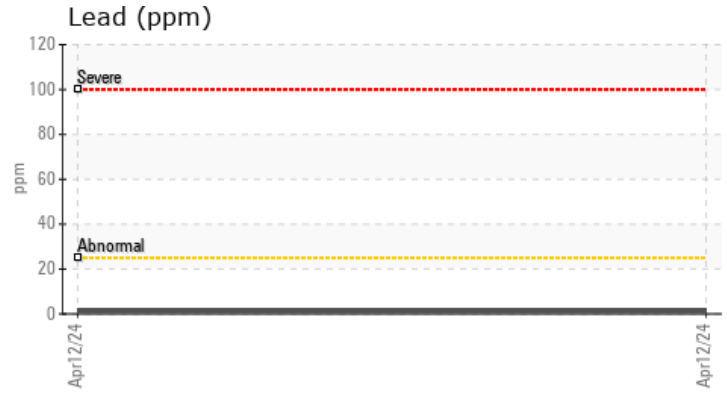
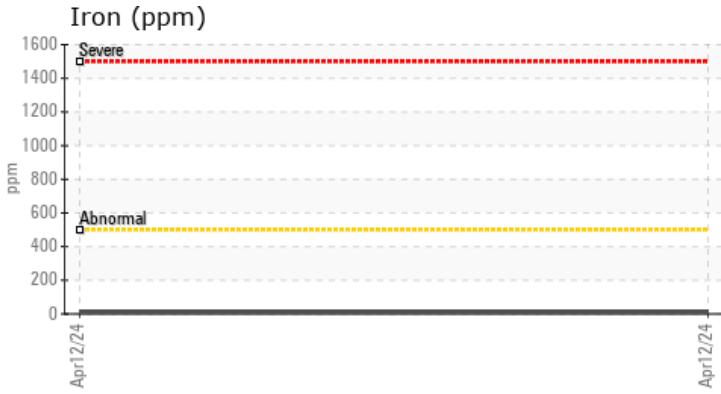
Depot: VOLVO5054
Unique No: 10983582
Signed: Wes Davis
Report Date: 19 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - FRONT RIGHT FINAL DRIVE



Sample No: VCP434958
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP434958	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
 BLOOMINGTON, IL
 US 61705
 Contact: MIKE MARTIN
 mike.martin@altaequipment.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 146	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 178	---	---	---
Copper	ppm	▲ 293	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 9	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 2	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 18	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 48	---	---	---
Magnesium	ppm	█ 13	---	---	---
Zinc	ppm	█ 209	---	---	---
Phosphorus	ppm	█ 1741	---	---	---
Barium	ppm	█ 4	---	---	---
Boron	ppm	█ 128	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The copper level is severe. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

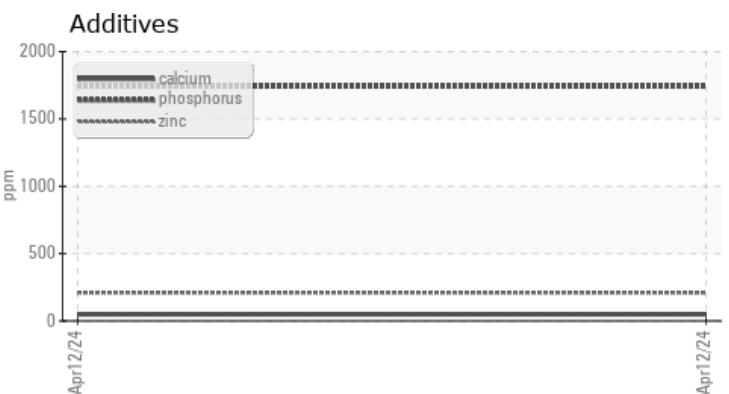
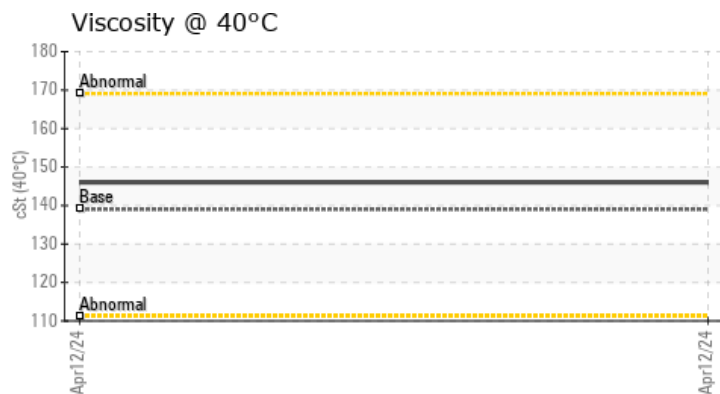
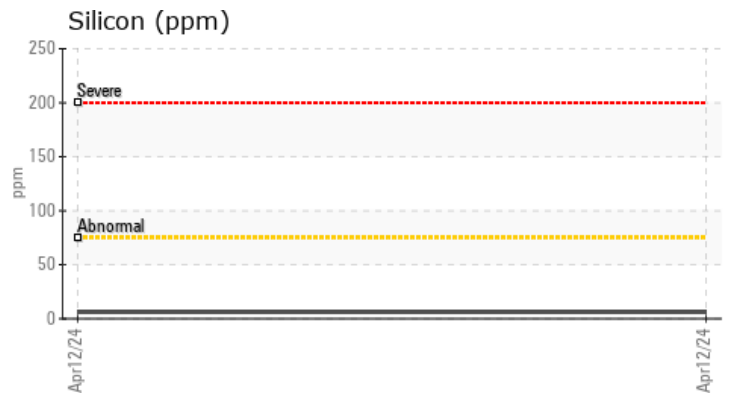
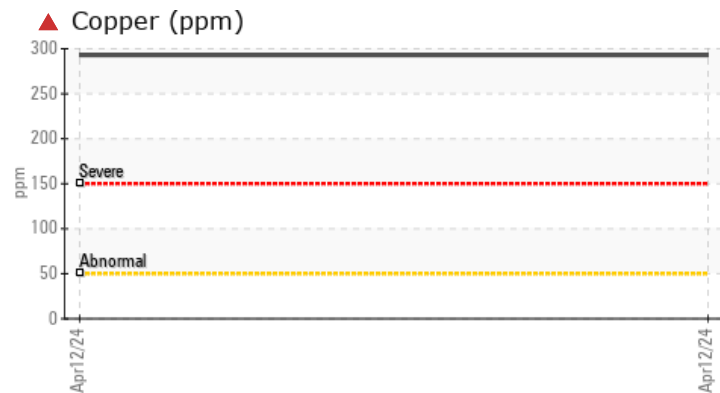
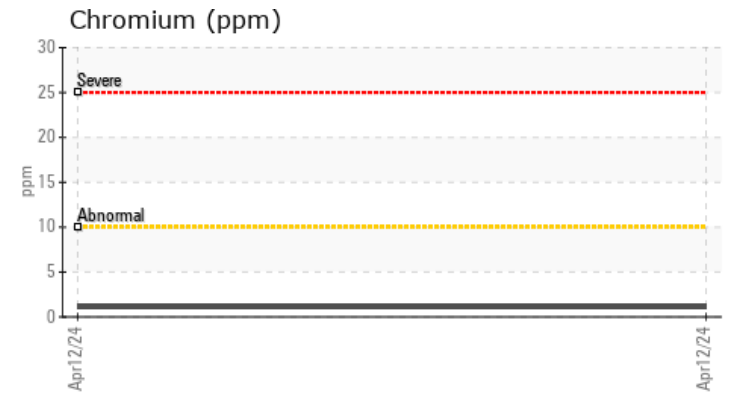
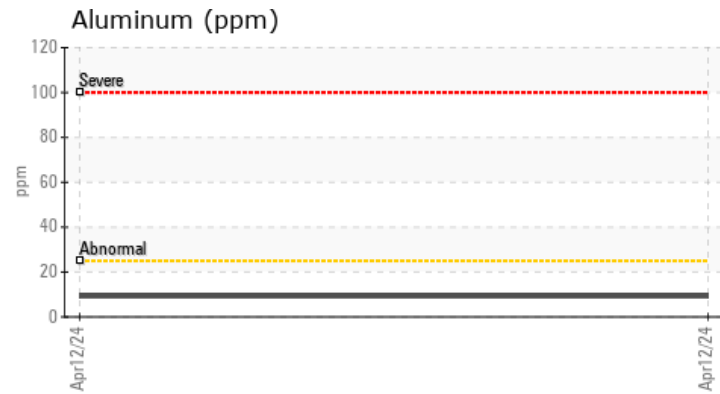
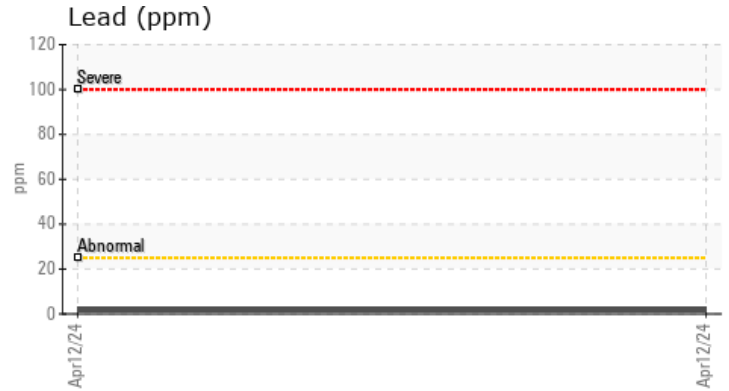
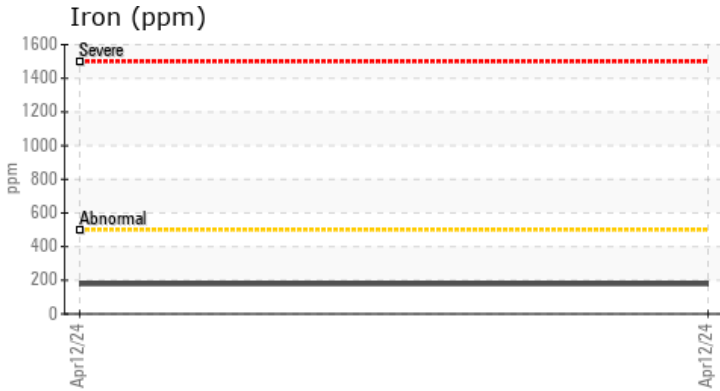
Depot: VOLVO5054
Unique No: 10983588
Signed: Sean Felton
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - REAR LEFT FINAL DRIVE



Sample No: VCP438110
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP438110	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
 BLOOMINGTON, IL
 US 61705
 Contact: MIKE MARTIN
 mike.martin@altaequipment.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 143	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 2	---	---	---



WEAR METALS

Iron	ppm	█ 43	---	---	---
Copper	ppm	█ 45	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 16	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 34	---	---	---
Phosphorus	ppm	█ 1737	---	---	---
Barium	ppm	█ 31	---	---	---
Boron	ppm	█ 167	---	---	---

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.

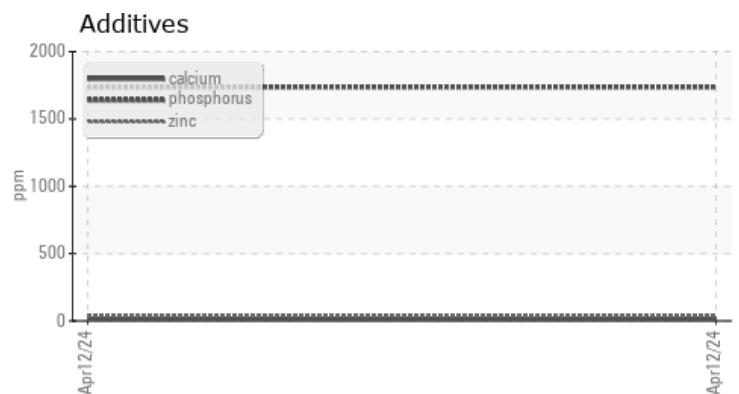
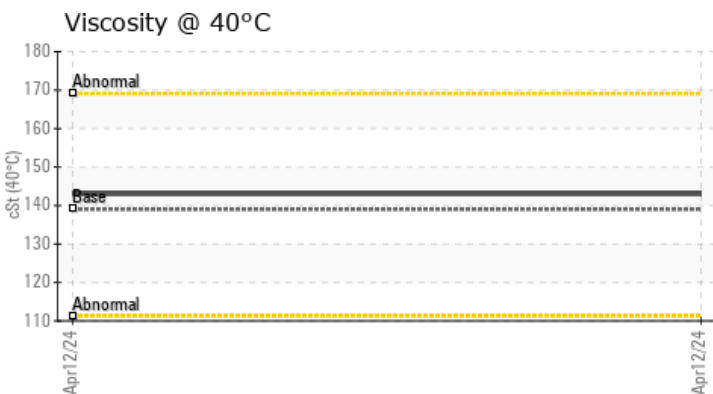
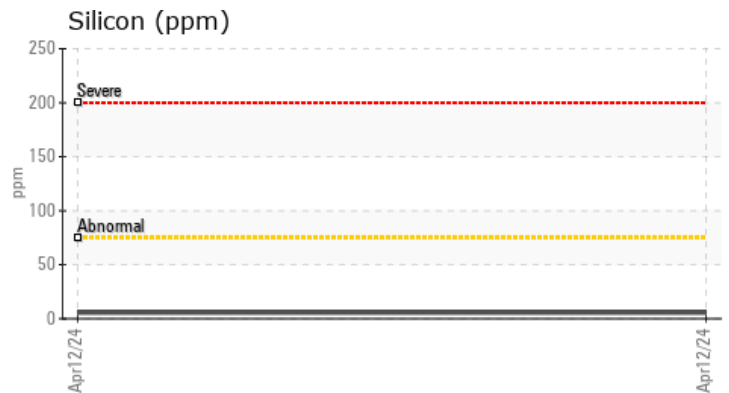
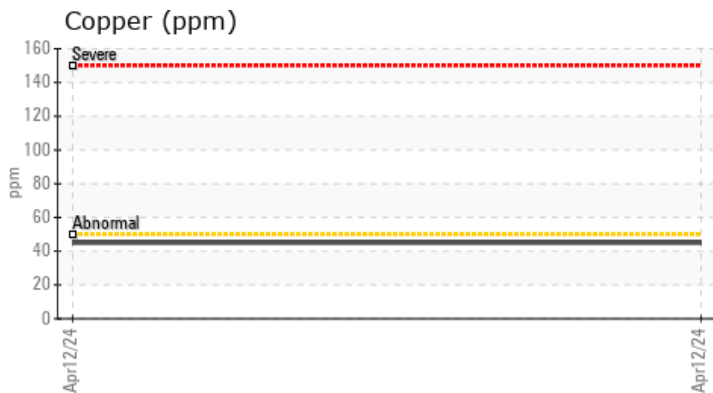
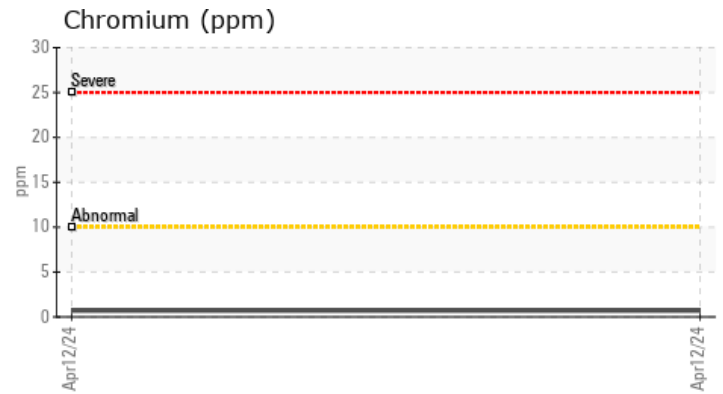
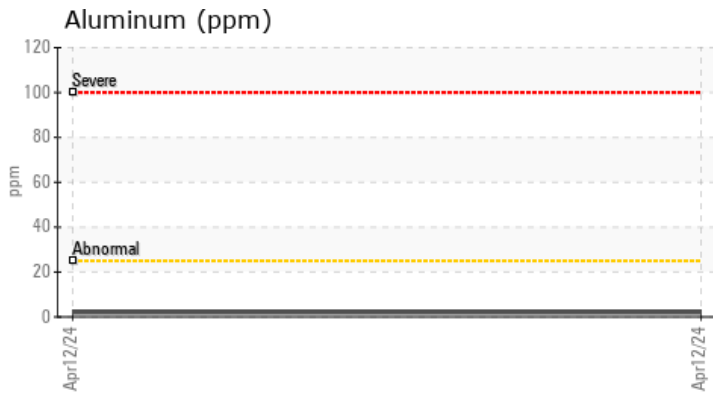
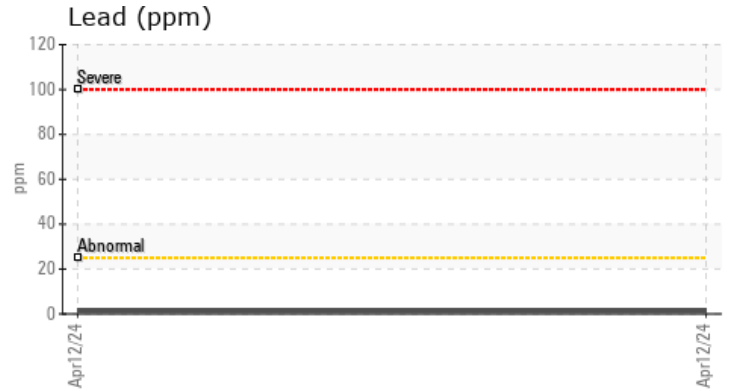
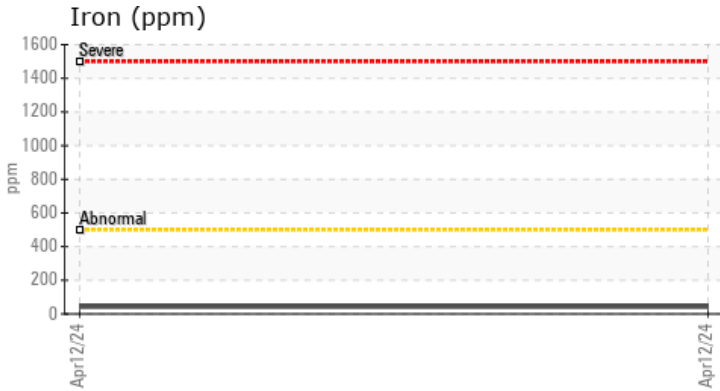
Depot: VOLVO5054
Unique No: 10983589
Signed: Sean Felton
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - REAR AXLE



Sample No: VCP434982
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP434982	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705
Contact: MIKE MARTIN
mike.martin@altaequipment.com



OIL CONDITION

Visc @ 40°C	cSt	█ 143	---	---	---
-------------	-----	-------	-----	-----	-----

T:
F:



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 4	---	---	---
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	█ 37	---	---	---
Copper	ppm	█ 38	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 15	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 29	---	---	---
Phosphorus	ppm	█ 1714	---	---	---
Barium	ppm	█ 31	---	---	---
Boron	ppm	█ 167	---	---	---

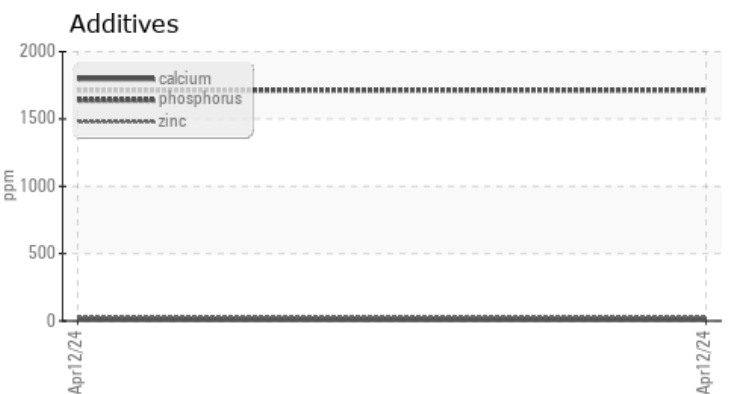
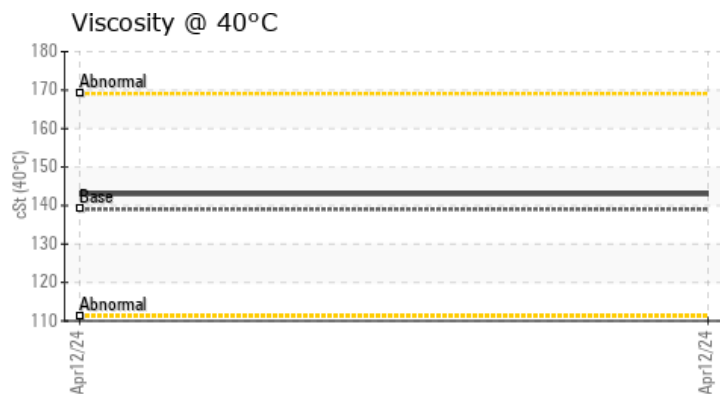
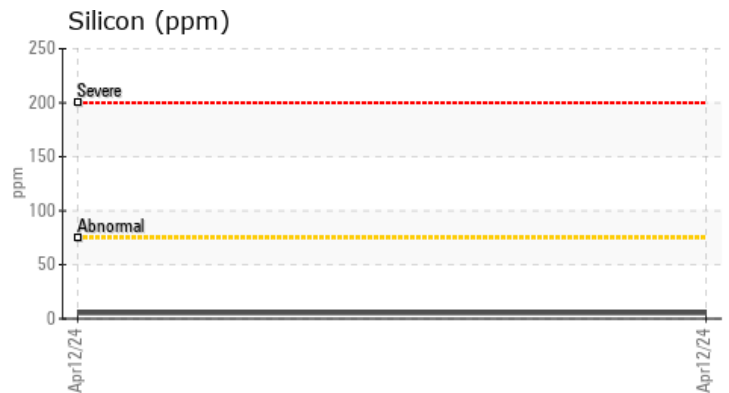
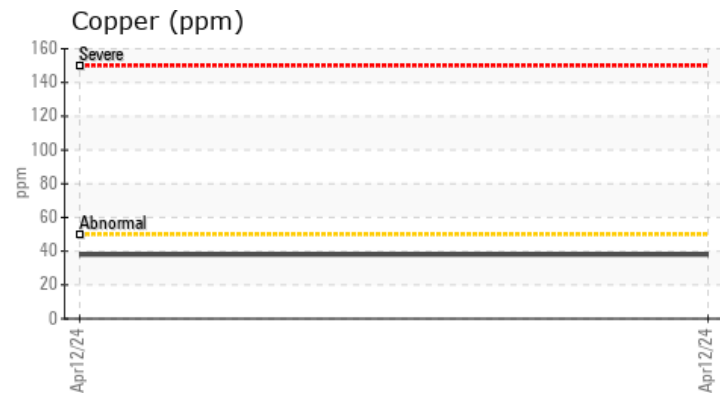
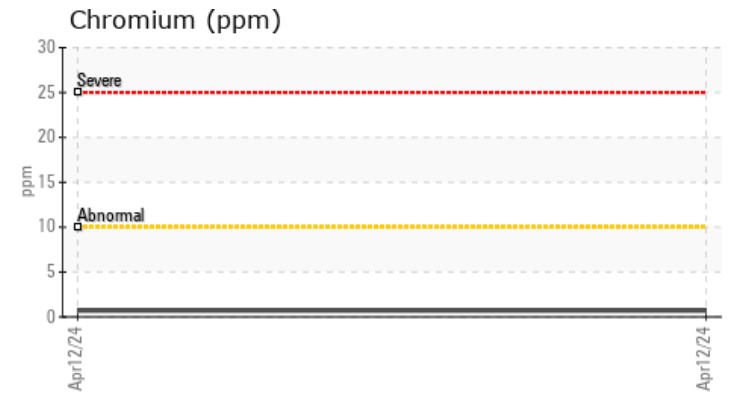
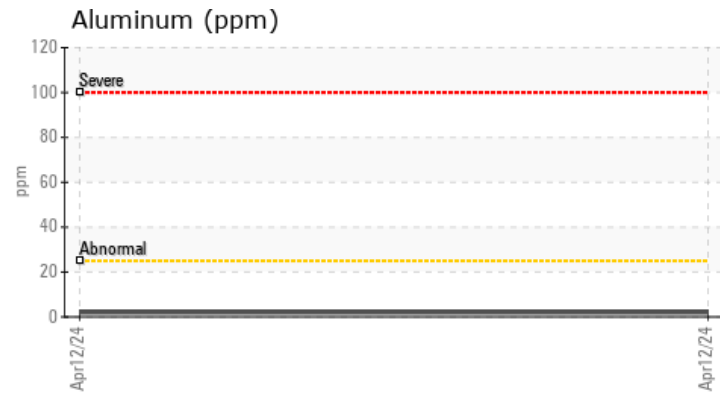
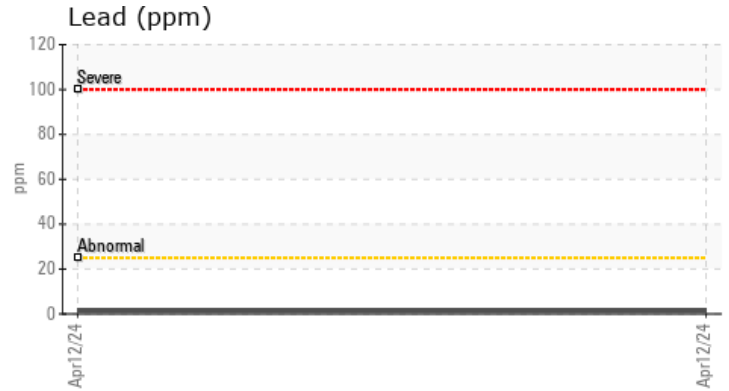
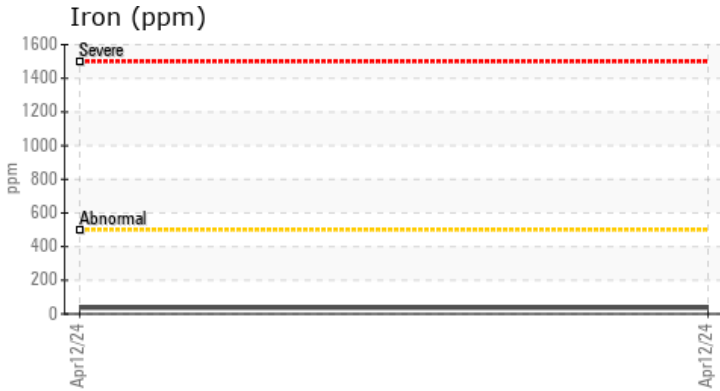
Depot: VOLVO5054
Unique No: 10983583
Signed: Sean Felton
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS





CONSTRUCTION EQUIPMENT

473401 SENNEBOGEN 830 830.0.35 16 - REAR RIGHT FINAL DRIVE



Sample No: VCP433775
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 473401



SAMPLE INFORMATION

Sample Number	VCP433775	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	2053	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705

Contact: MIKE MARTIN
mike.martin@altaequipment.com

T:
F:

OIL CONDITION

Visc @ 40°C	cSt	█ 144	---	---	---
-------------	-----	-------	-----	-----	-----

CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. 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 oil. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 64	---	---	---
Copper	ppm	▲ 59	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 21	---	---	---
Magnesium	ppm	█ 4	---	---	---
Zinc	ppm	█ 52	---	---	---
Phosphorus	ppm	█ 2615	---	---	---
Barium	ppm	█ 48	---	---	---
Boron	ppm	█ 254	---	---	---

Depot: VOLVO5054
Unique No: 10983586
Signed: Sean Felton
Report Date: 22 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

