



# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - COOLANT



**Sample No:** VCP431492  
**Oil Type:** FLEETGUARD BLUE  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP431492	---	---	---
Sample Date	15 Mar 2024	---	---	---
Machine Hours	9526	---	---	---
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:



## COOLANT CONDITION

pH	Scale 0-14	■ 7.78	---	---	---
Reserve Alkalinity	Scale 0-20	■ ---	---	---	---
Nitrites	ppm	■ 3044	---	---	---
Percentage Glycol	%	■ 57.3	---	---	---
Freezing Point	°C	■ -52	---	---	---

### 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	Black	---	---	---

**Depot:** VOLVO5054  
**Unique No:** 10969648  
**Signed:** Jonathan Hester  
**Report Date:** 15 Apr 2024



# CONSTRUCTION EQUIPMENT

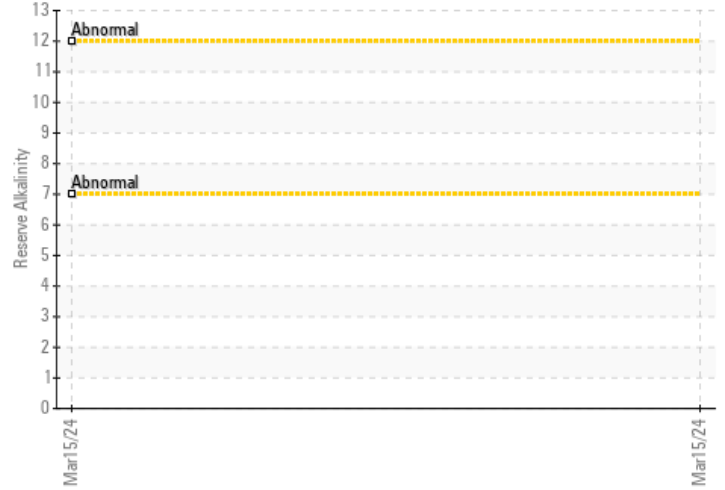


## GRAPHS

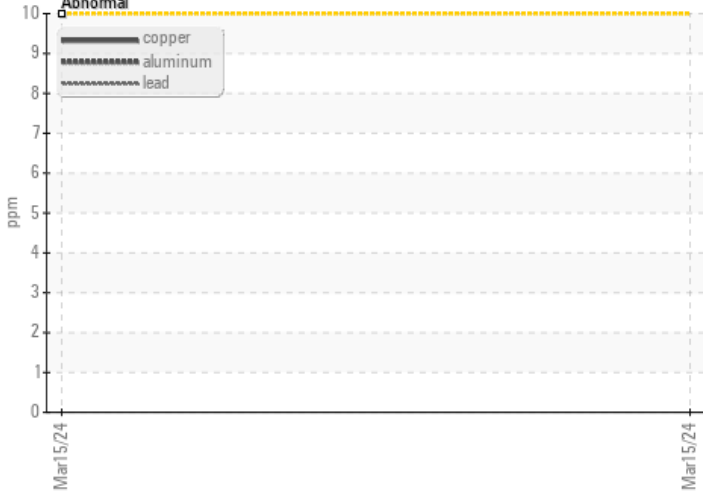
### Iron/Tin/Silver



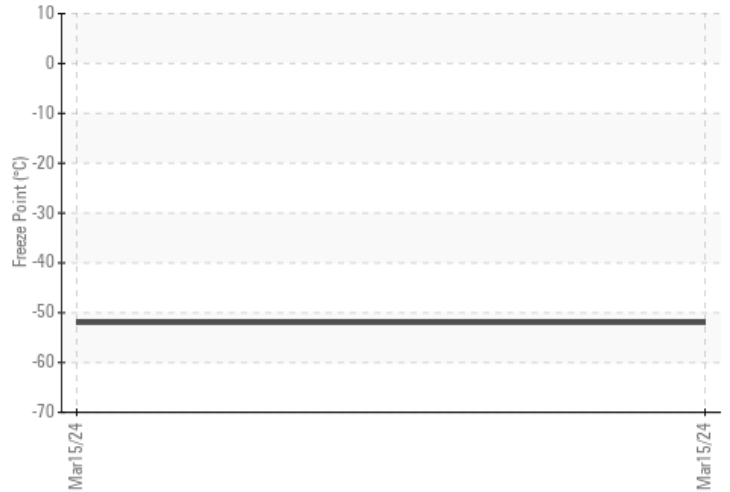
### Reserve Alkalinity



### Copper/Aluminum/Lead



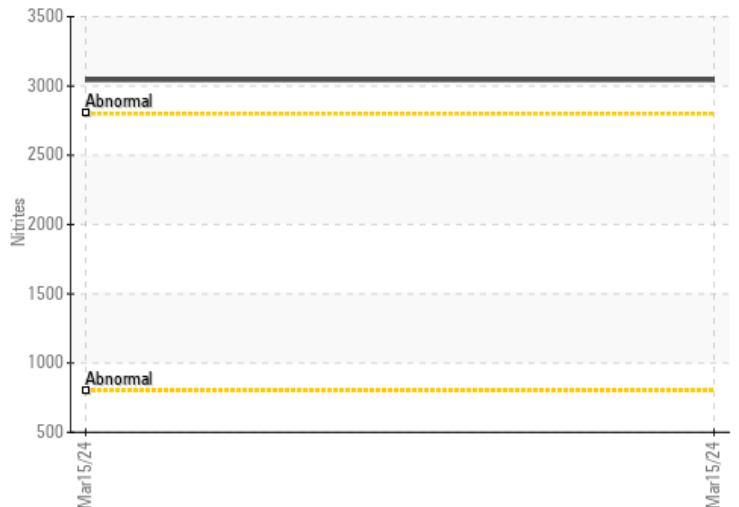
### Freeze Point



### pH



### Nitrites





# CONSTRUCTION EQUIPMENT

SWA497592 ALTER PEOR SENNEBOGEN 835M 835.0.2632 - DIESEL ENGINE



**Sample No:** VCP431483  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWA497592 ALTER PEOR



## SAMPLE INFORMATION

Sample Number	<b>VCP431483</b>	VCP396360	VCP363691	---
Sample Date	<b>15 Mar 2024</b>	17 Oct 2023	25 Oct 2022	---
Machine Hours	<b>9526</b>	8583	6250	---
Oil Hours	<b>1000</b>	2000	500	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	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	<b>12.6</b>	13.1	13.2	---
Base Number (BN)	mg KOH/g	<b>5.3</b>	6.9	7.5	---
Oxidation (PA)	%	<b>123</b>	122	104	---

### 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 suitable for further service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.3</b>	0.3	0.3	---
Nitration (PA)	%	<b>96</b>	99	103	---
Sulfation (PA)	%	<b>75</b>	72	72	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>3</b>	5	5	---
Sodium	ppm	<b>2</b>	2	1	---
Potassium	ppm	<b>1</b>	6	6	---



## WEAR METALS

Iron	ppm	<b>18</b>	21	26	---
Copper	ppm	<b>&lt;1</b>	<1	2	---
Lead	ppm	<b>&lt;1</b>	0	0	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>2</b>	2	4	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>49</b>	54	69	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	2	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1243</b>	1768	1328	---
Magnesium	ppm	<b>733</b>	586	895	---
Zinc	ppm	<b>1084</b>	1239	1363	---
Phosphorus	ppm	<b>960</b>	960	1066	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>3</b>	26	7	---

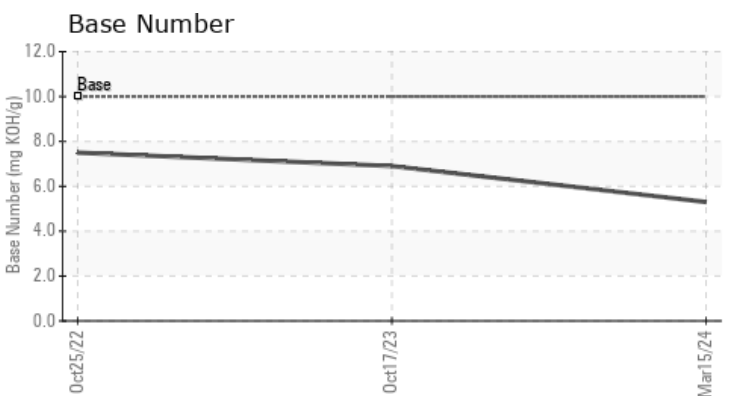
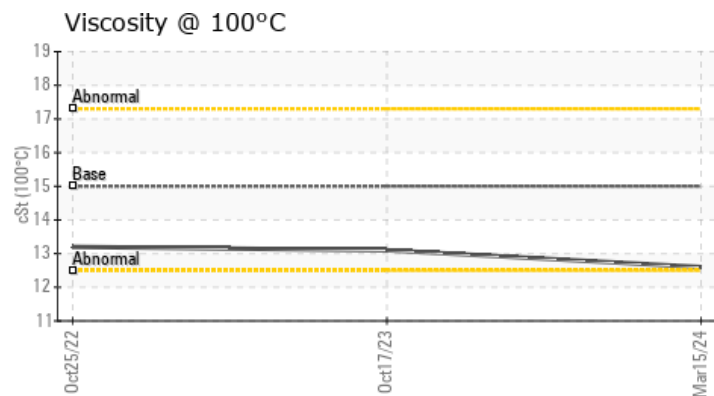
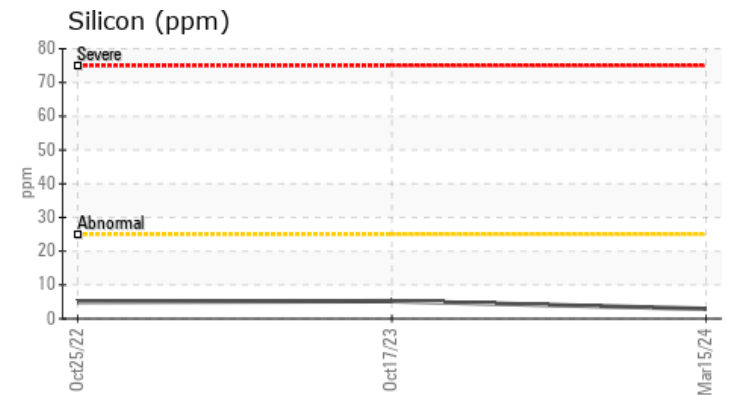
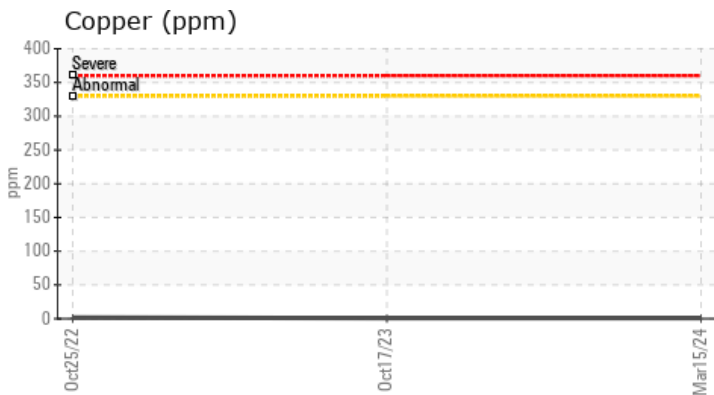
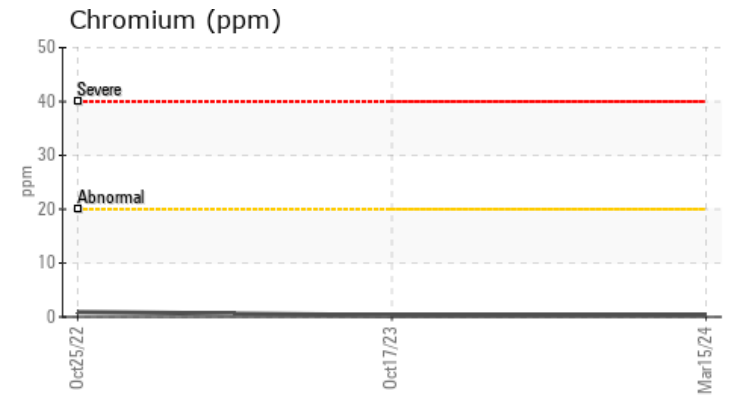
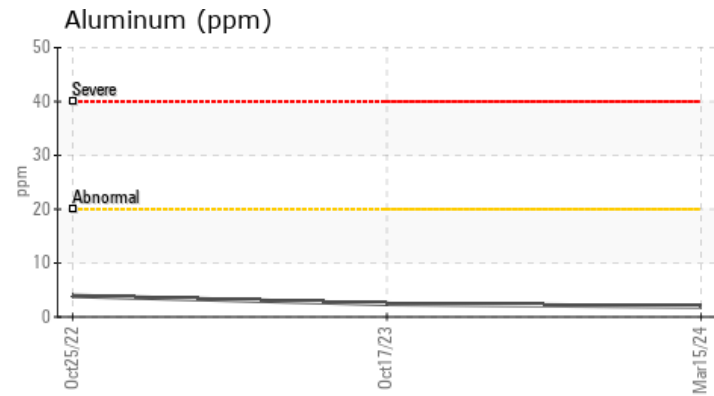
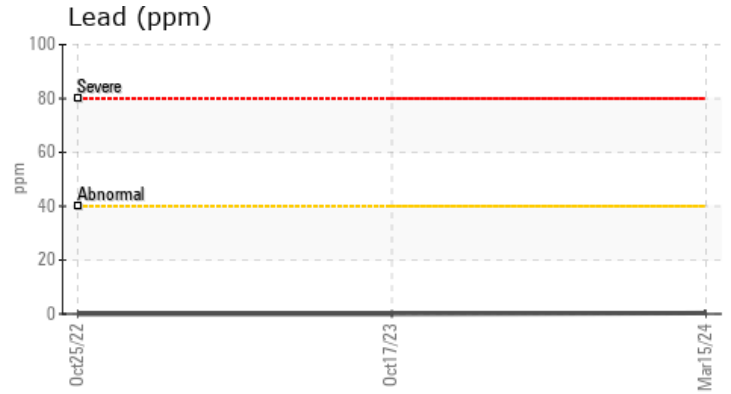
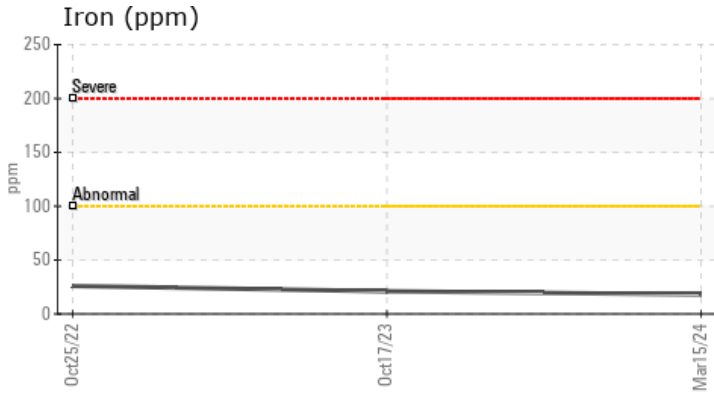
**Depot:** VOLVO5054  
**Unique No:** 10968732  
**Signed:** Jonathan Hester  
**Report Date:** 12 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - TRANSMISSION



**Sample No:** VCP431490  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	<b>VCP431490</b>	VCP396375	VCP363690	---
Sample Date	<b>15 Mar 2024</b>	06 Oct 2023	25 Oct 2022	---
Machine Hours	<b>9526</b>	8583	6250	---
Oil Hours	<b>1000</b>	2000	1000	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>SEVERE</b>	SEVERE	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	<b>78.6</b>	83.7	77.2	---
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>▲ 619</b>	▲ 330	▲ 644	---
Sodium	ppm	<b>■ 4</b>	■ 2	■ 6	---
Potassium	ppm	<b>■ 0</b>	■ 0	■ 0	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Elemental level of silicon (Si) above normal. The fluid is no longer serviceable due to the presence of contaminants.



## WEAR METALS

Iron	ppm	<b>■ 11</b>	■ 5	■ 14	---
Copper	ppm	<b>■ 10</b>	■ 9	■ 27	---
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	---
Tin	ppm	<b>■ 0</b>	■ <1	■ <1	---
Aluminum	ppm	<b>■ &lt;1</b>	■ <1	■ 2	---
Chromium	ppm	<b>■ 0</b>	■ 0	■ <1	---
Molybdenum	ppm	<b>■ 45</b>	■ 46	■ 30	---
Nickel	ppm	<b>■ 3</b>	■ 0	■ 2	---
Titanium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	---
Manganese	ppm	<b>■ 6</b>	■ 5	■ 11	---
Vanadium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	---



## ADDITIVES

Calcium	ppm	<b>■ 1299</b>	■ 1218	■ 1393	---
Magnesium	ppm	<b>■ 680</b>	■ 683	■ 304	---
Zinc	ppm	<b>■ 1063</b>	■ 1089	■ 782	---
Phosphorus	ppm	<b>■ 946</b>	■ 1001	■ 1034	---
Barium	ppm	<b>■ 0</b>	■ <1	■ 0	---
Boron	ppm	<b>■ 43</b>	■ 48	■ 103	---

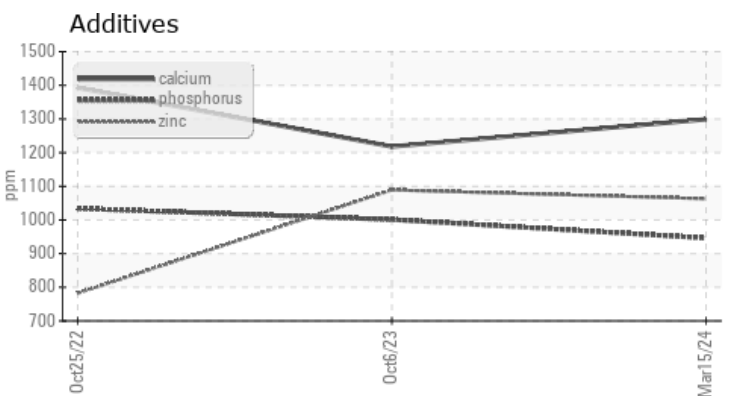
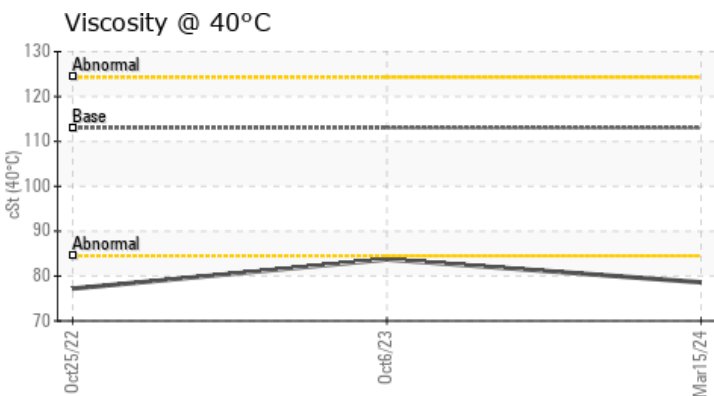
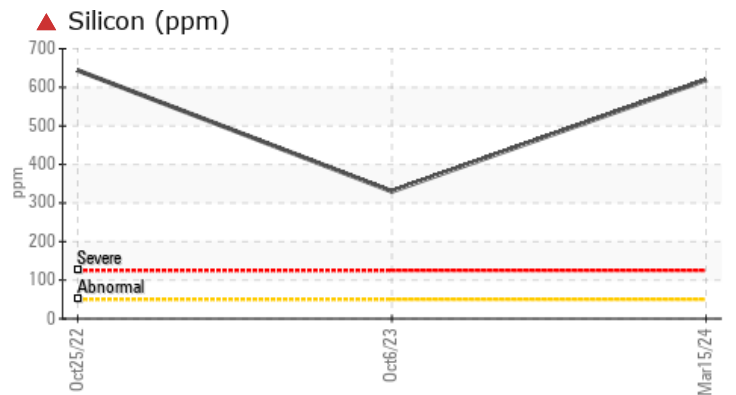
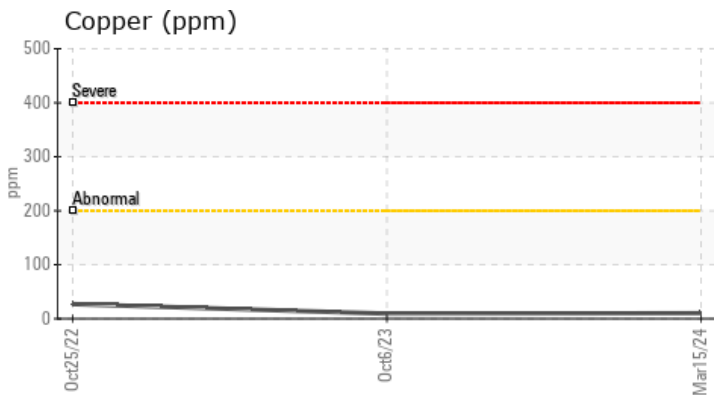
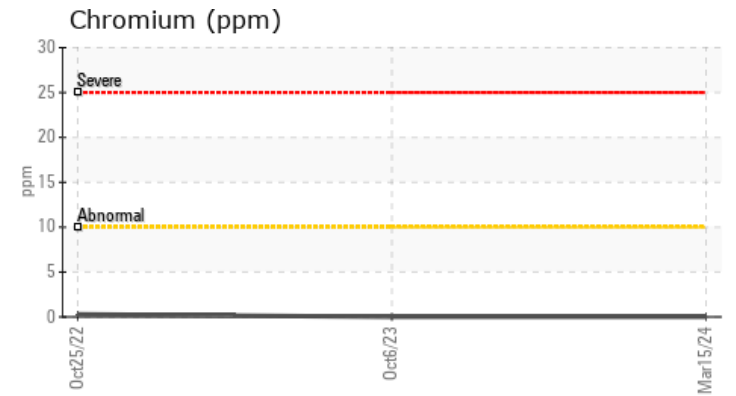
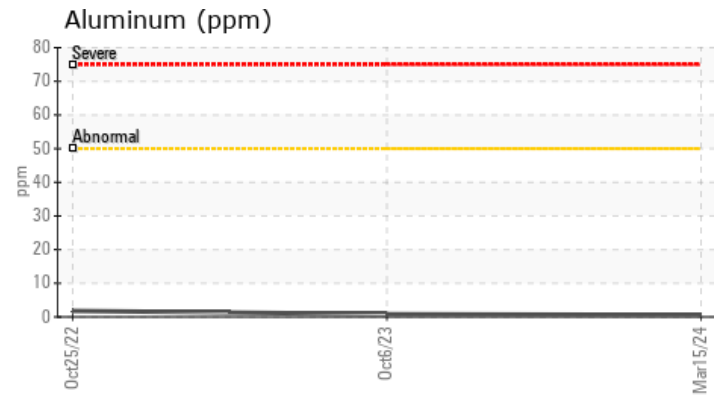
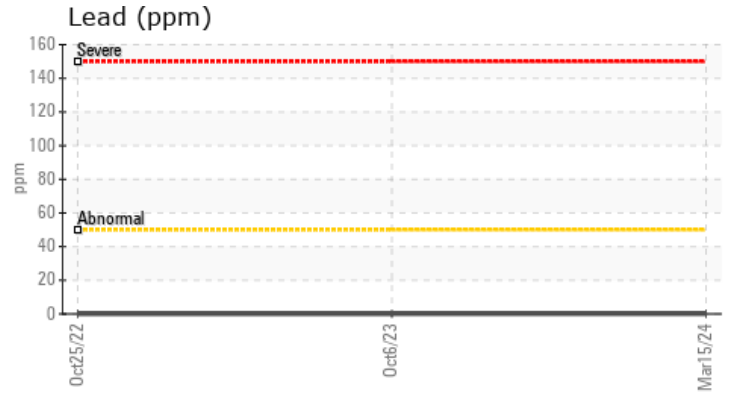
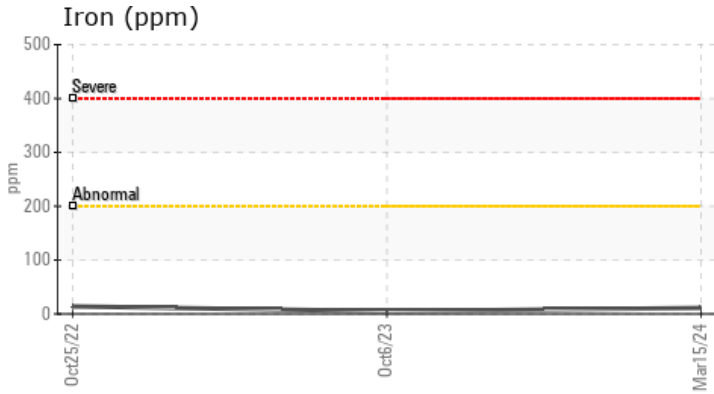
**Depot:** VOLVO5054  
**Unique No:** 10969546  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS



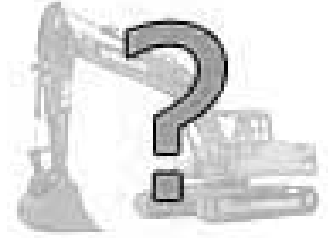


# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - HYDRAULIC SYSTEM



**Sample No:** VCP431487  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP431487	VCP396363	---	---
Sample Date	15 Mar 2024	06 Oct 2023	---	---
Machine Hours	9526	8583	---	---
Oil Hours	0	0	---	---
Oil Changed	Not 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 @ 40°C	cSt	42.0	43.6	---	---
Acid Number (AN)	mg KOH/g	0.42	0.43	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		1411	3392	---	---
Particles >6µm		400	973	---	---
Particles >14µm		43	86	---	---
ISO 4406:1999 (c)		18/16/13	19/17/14	---	---
Silicon	ppm	<1	<1	---	---
Sodium	ppm	<1	2	---	---
Potassium	ppm	0	0	---	---

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



## ADDITIVES

Calcium	ppm	124	195	---	---
Magnesium	ppm	10	31	---	---
Zinc	ppm	430	471	---	---
Phosphorus	ppm	339	374	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	1	---	---

**Depot:** VOLVO5054  
**Unique No:** 10968967  
**Signed:** Wes Davis  
**Report Date:** 11 Apr 2024

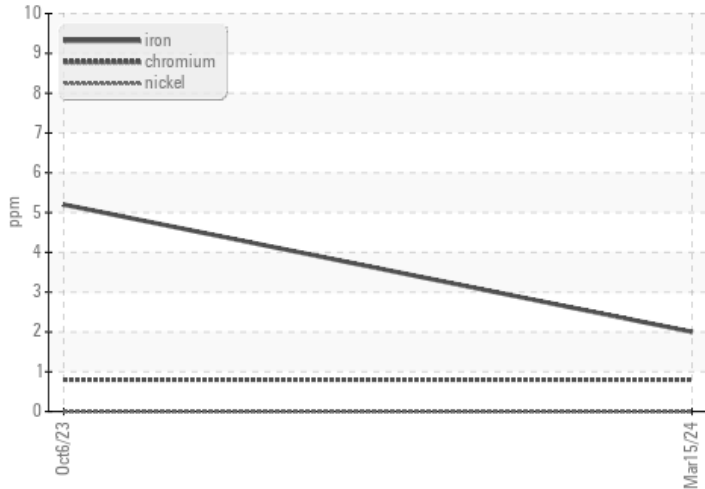


# CONSTRUCTION EQUIPMENT

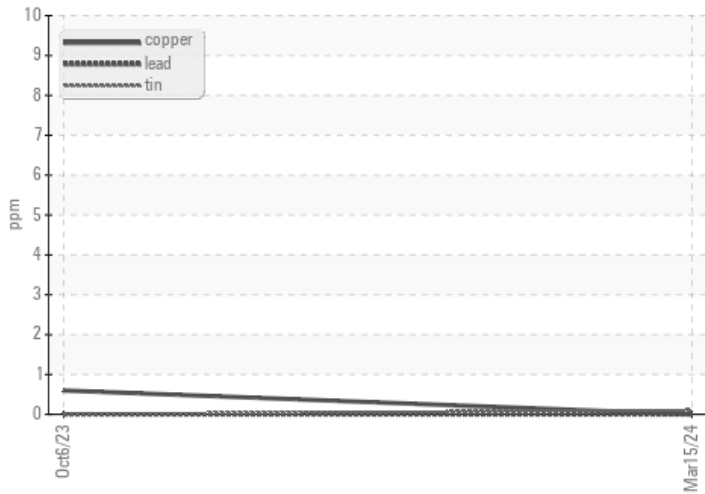


## GRAPHS

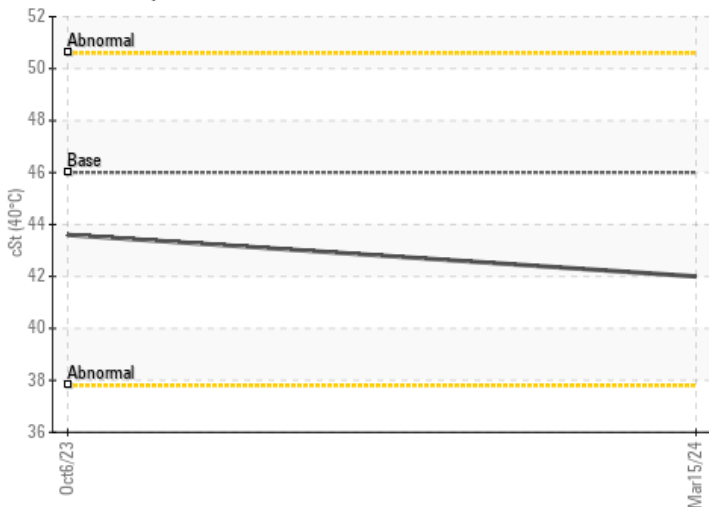
### Ferrous Alloys



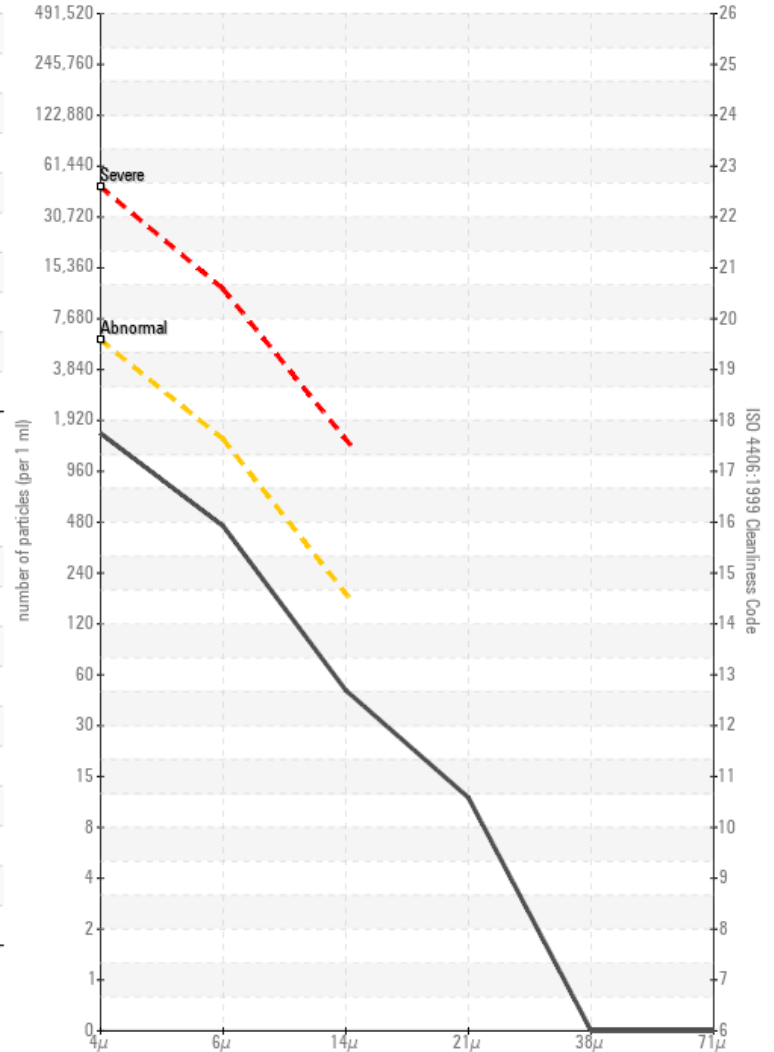
### Non-ferrous Metals



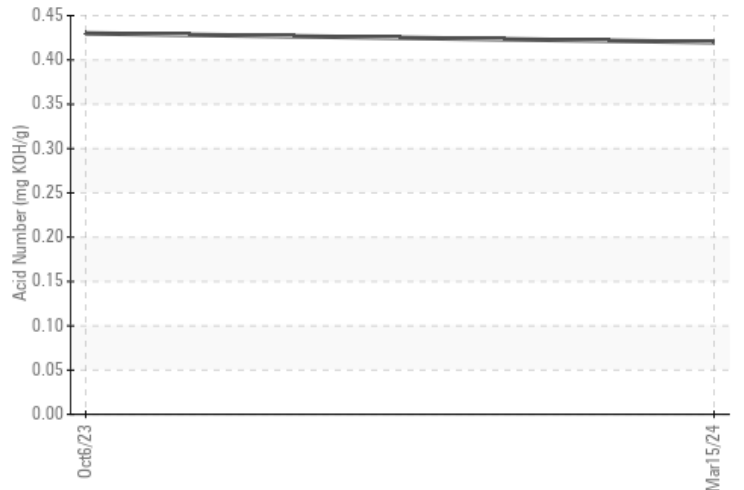
### Viscosity @ 40°C



### Particle Count



### Acid Number







# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - LEFT SWING DRIVE



**Sample No:** VCP431494  
**Oil Type:** SHELL OMALA S4 GX 220  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP431494	VCP396357	---	---
Sample Date	15 Mar 2024	06 Oct 2023	---	---
Machine Hours	9526	8583	---	---
Oil Hours	1000	2000	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	SEVERE	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	228	224	---	---
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## CONTAMINATION

Water	%	NEG	0.327	---	---
Silicon	ppm	6	12	---	---
Sodium	ppm	0	0	---	---
Potassium	ppm	0	0	---	---



## WEAR METALS

Iron	ppm	939	1546	---	---
Copper	ppm	300	656	---	---
Lead	ppm	2	0	---	---
Tin	ppm	17	40	---	---
Aluminum	ppm	0	1	---	---
Chromium	ppm	8	12	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	<1	2	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	6	8	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	51	23	---	---
Magnesium	ppm	<1	5	---	---
Zinc	ppm	73	125	---	---
Phosphorus	ppm	471	454	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	28	27	---	---

## Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Bearing and/or bushing wear is indicated. 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.

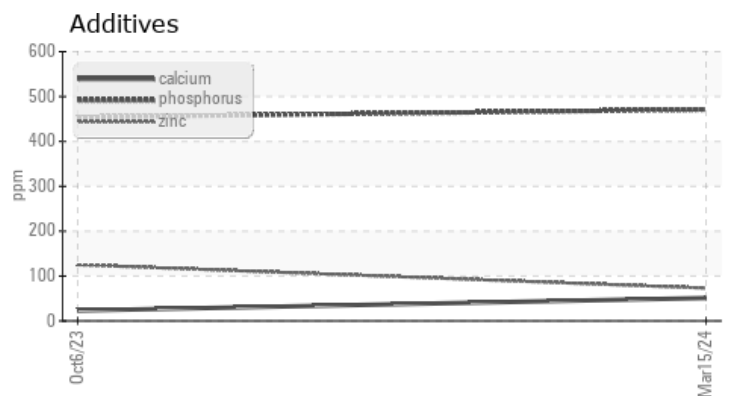
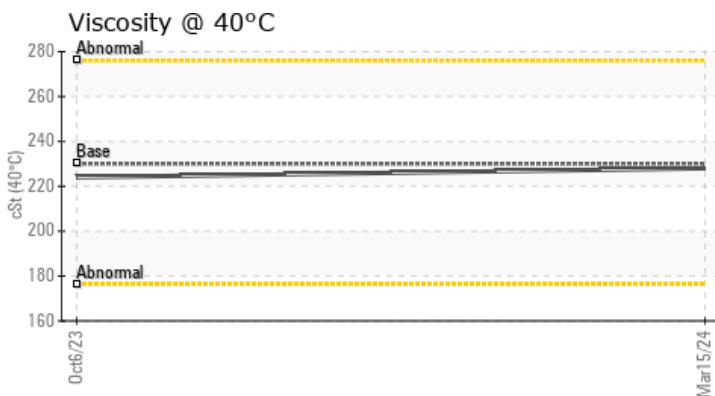
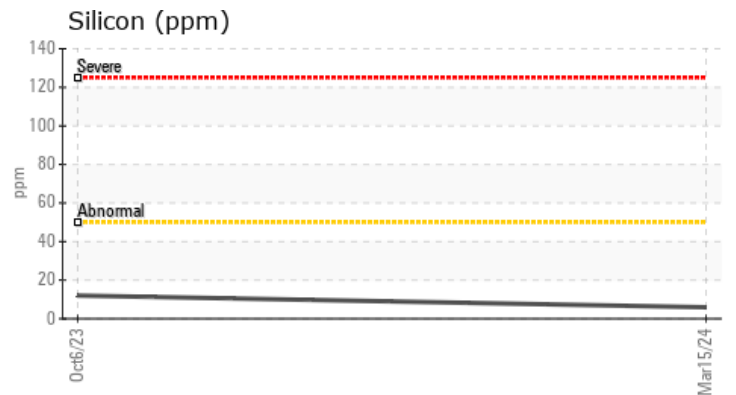
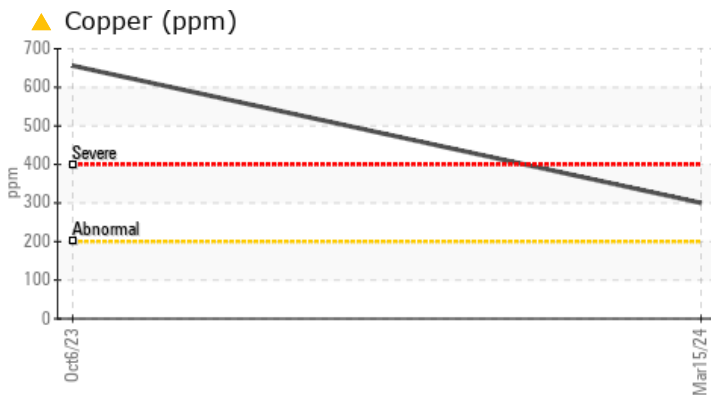
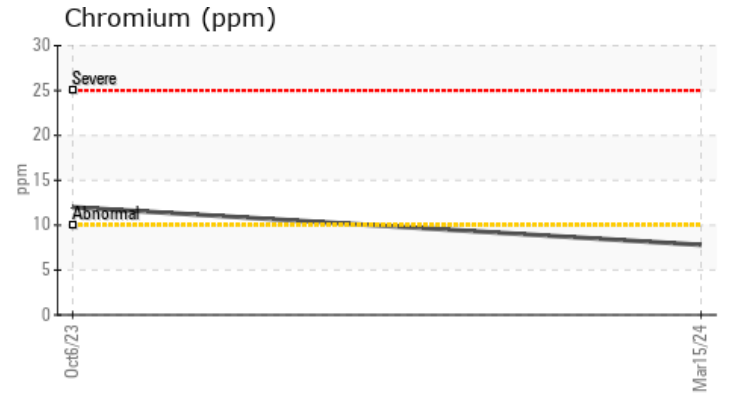
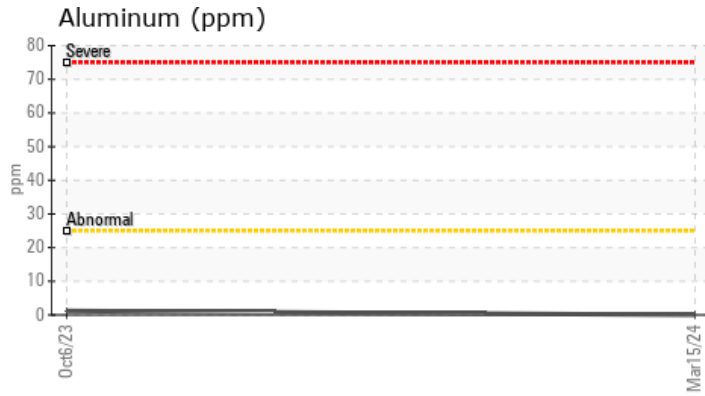
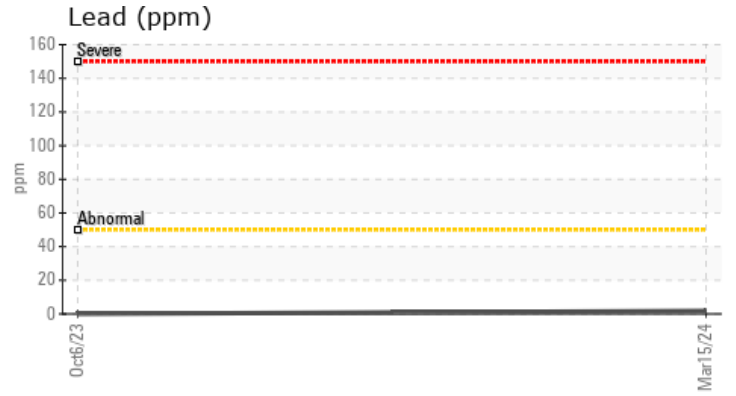
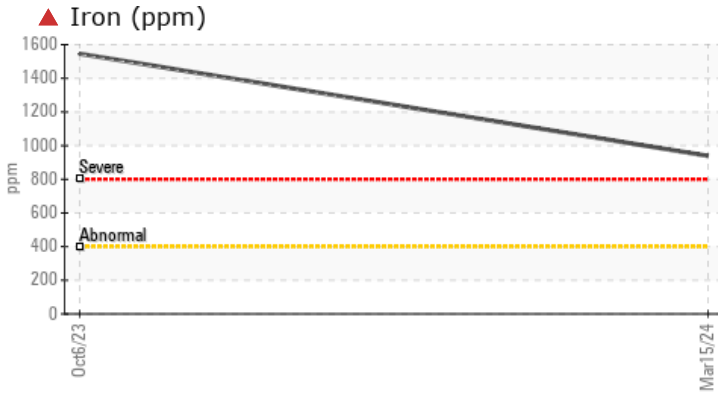
**Depot:** VOLVO5054  
**Unique No:** 10969480  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS



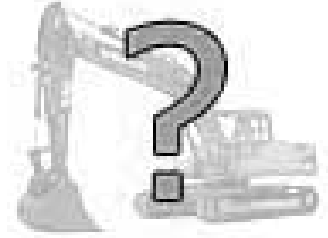


# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - RIGHT SWING DRIVE



**Sample No:** VCP431486  
**Oil Type:** SHELL OMALA S4 GX 220  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP431486	VCP396359	---	---
Sample Date	15 Mar 2024	17 Oct 2023	---	---
Machine Hours	9526	8583	---	---
Oil Hours	1000	2000	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	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	█ 227	█ 216	---	---
-------------	-----	-------	-------	-----	-----



## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 3	█ 11	---	---
Sodium	ppm	█ 0	█ <1	---	---
Potassium	ppm	█ 0	█ <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	█ 282	▲ 1263	---	---
Copper	ppm	█ 53	▲ 503	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 6	▲ 37	---	---
Aluminum	ppm	█ 0	█ 1	---	---
Chromium	ppm	█ 2	█ 9	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 3	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 2	█ 12	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	9	█ 60	---	---
Magnesium	ppm	█ 0	█ 10	---	---
Zinc	ppm	█ 46	179	---	---
Phosphorus	ppm	█ 500	█ 473	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 16	█ 30	---	---

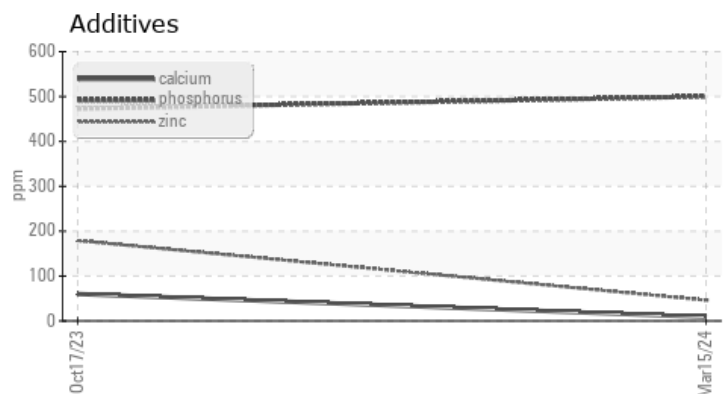
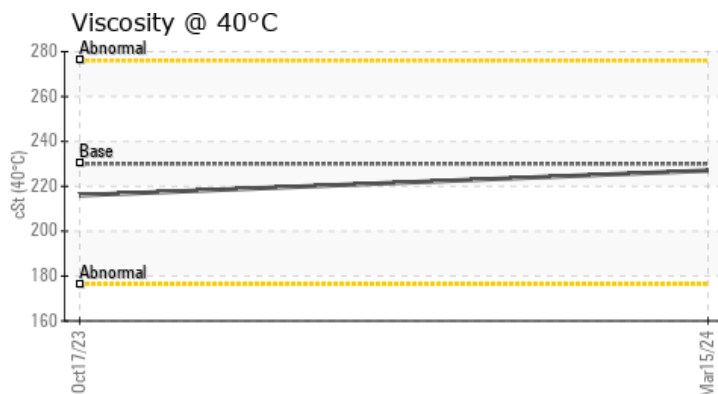
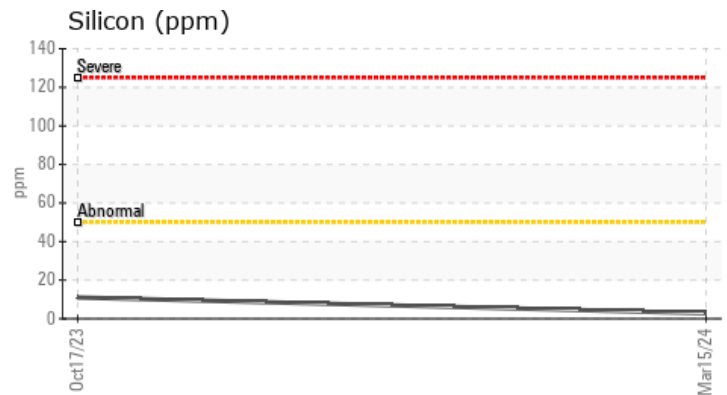
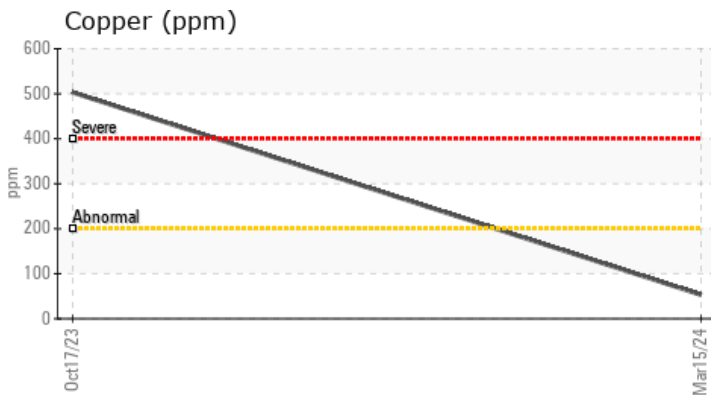
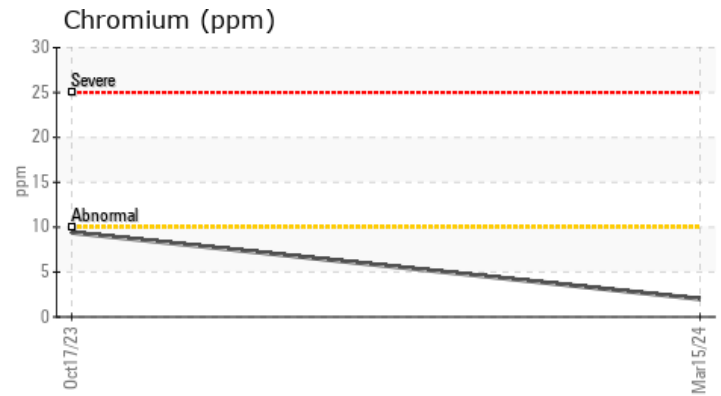
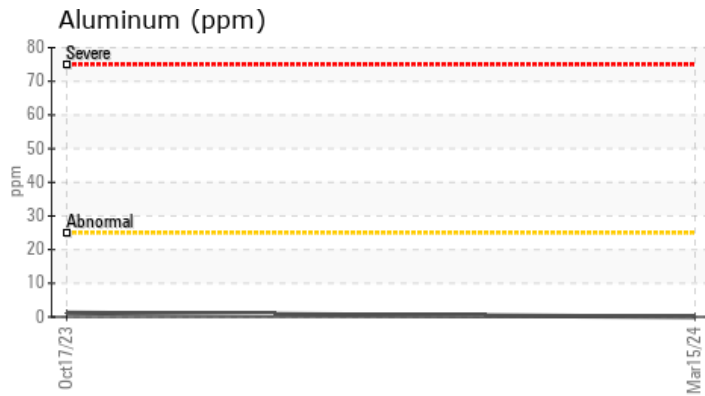
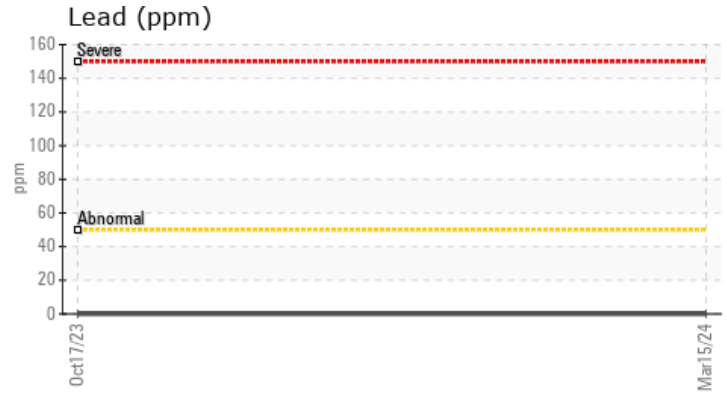
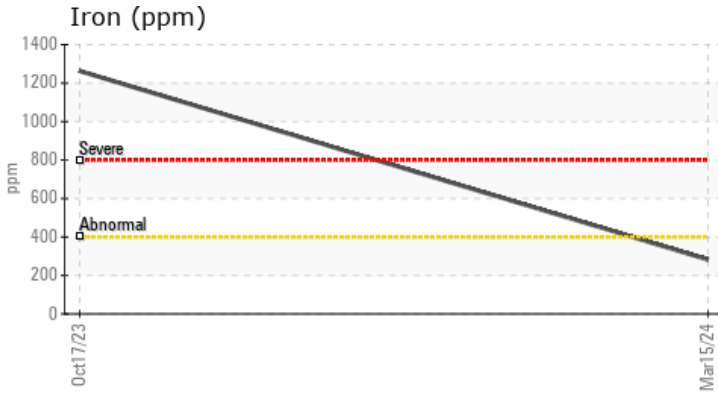
**Depot:** VOLVO5054  
**Unique No:** 10969461  
**Signed:** Wes Davis  
**Report Date:** 11 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP433767  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP433767	VCP396362	---	---
Sample Date	15 Mar 2024	06 Oct 2023	---	---
Machine Hours	9526	8583	---	---
Oil Hours	1000	2000	---	---
Oil Changed	Not 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 @ 40°C	cSt	█ 143	█ 150	---	---
-------------	-----	-------	-------	-----	-----



## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 4	█ 2	---	---
Sodium	ppm	█ <1	█ <1	---	---
Potassium	ppm	█ 0	█ 0	---	---

## 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	█ 71	█ 106	---	---
Copper	ppm	█ 4	█ 11	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 11	█ 7	---	---
Magnesium	ppm	█ 0	█ 4	---	---
Zinc	ppm	█ 14	█ 27	---	---
Phosphorus	ppm	█ 2092	█ 1741	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ 223	█ 94	---	---

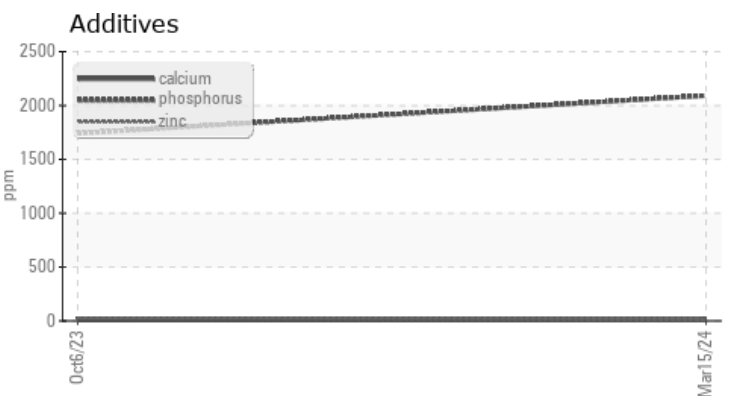
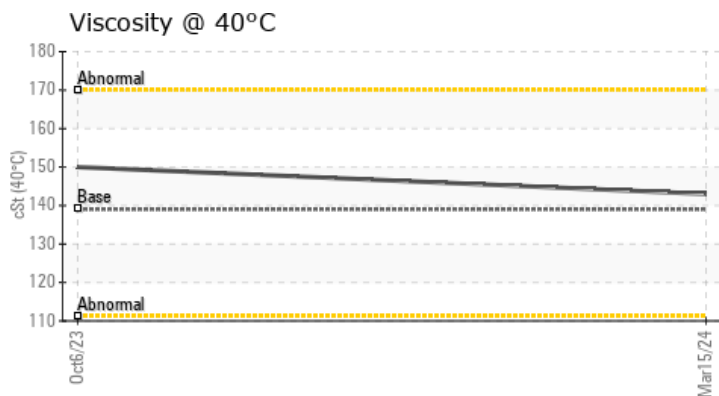
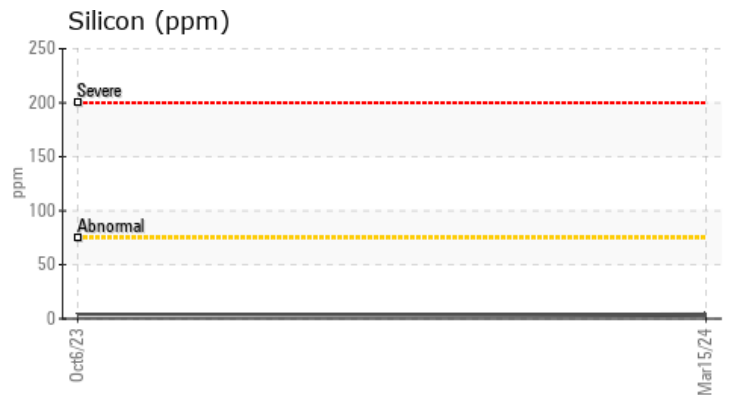
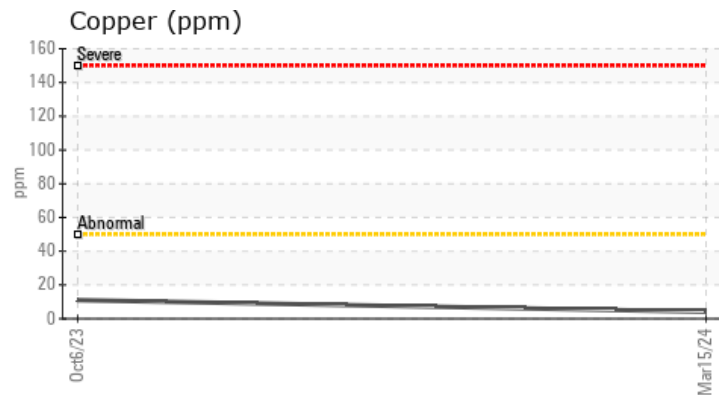
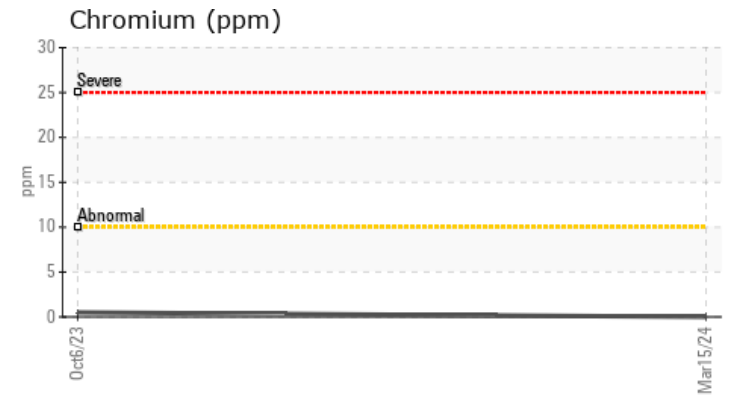
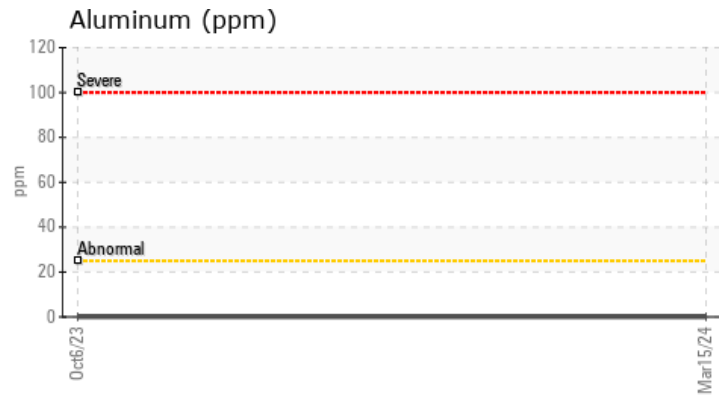
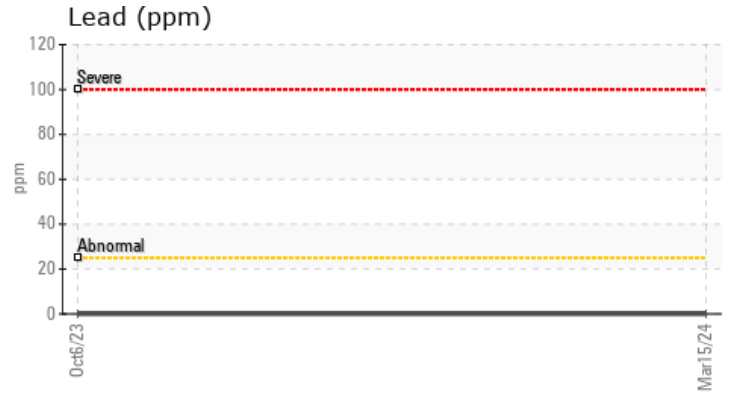
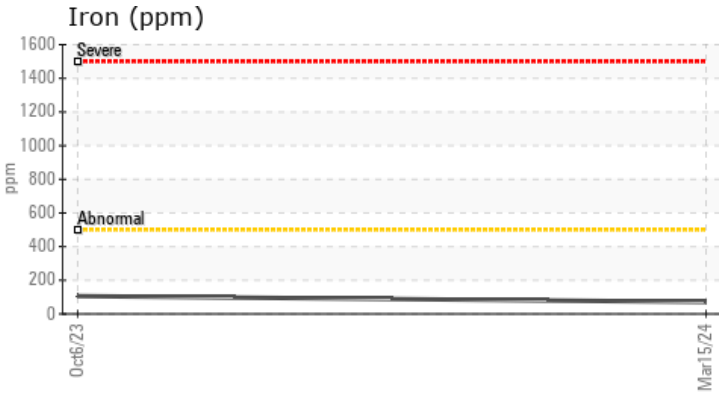
**Depot:** VOLVO5054  
**Unique No:** 10969462  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS



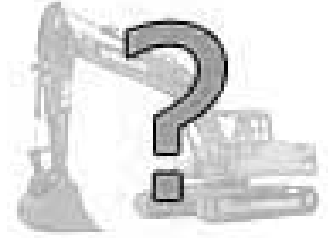


# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - FRONT AXLE



**Sample No:** VCP319006  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP319006	VCP396361	---	---
Sample Date	15 Mar 2024	17 Oct 2023	---	---
Machine Hours	9526	8583	---	---
Oil Hours	1000	2000	---	---
Oil Changed	Not 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 @ 40°C	cSt	█ 155	█ 151	---	---
-------------	-----	-------	-------	-----	-----



## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 4	█ 4	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ <1	█ 0	---	---

### 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	█ 79	█ 3	---	---
Copper	ppm	█ 14	█ 29	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 3	█ 0	---	---
Aluminum	ppm	█ <1	█ 0	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 1	█ <1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 27	█ 4	---	---
Magnesium	ppm	█ <1	█ 2	---	---
Zinc	ppm	█ 61	█ 22	---	---
Phosphorus	ppm	█ 2194	█ 1909	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 44	█ 160	---	---

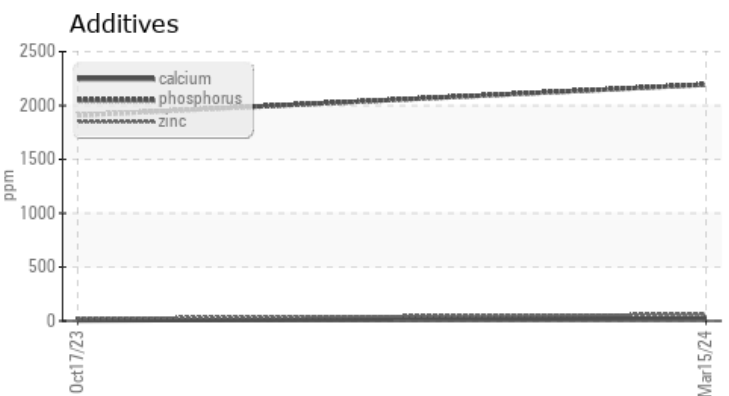
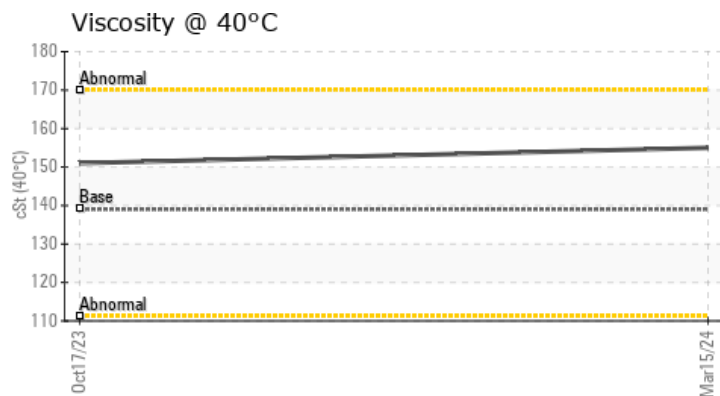
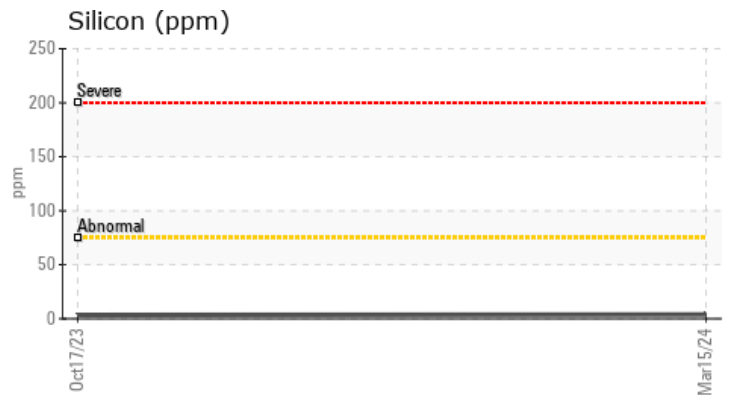
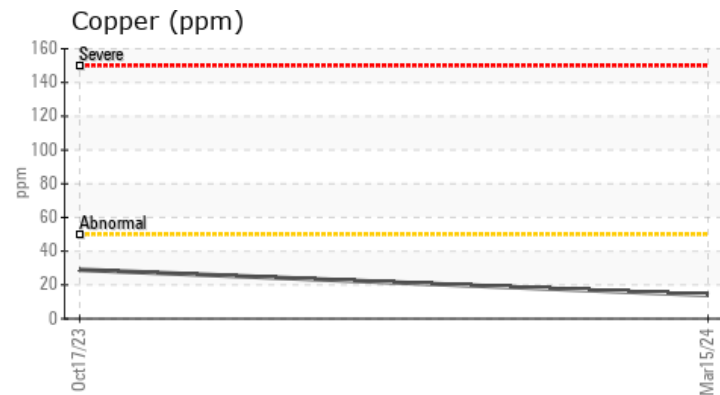
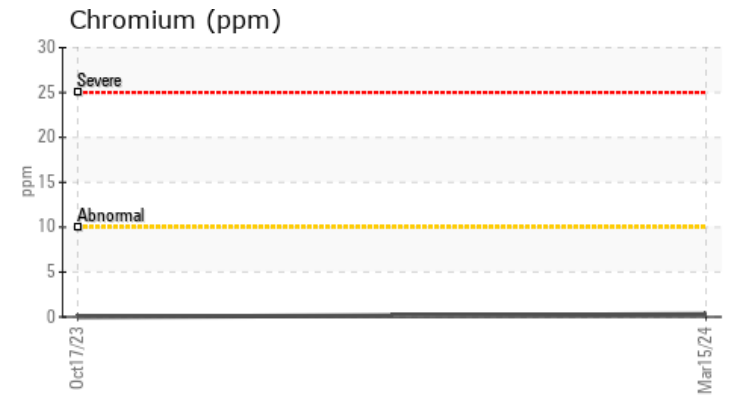
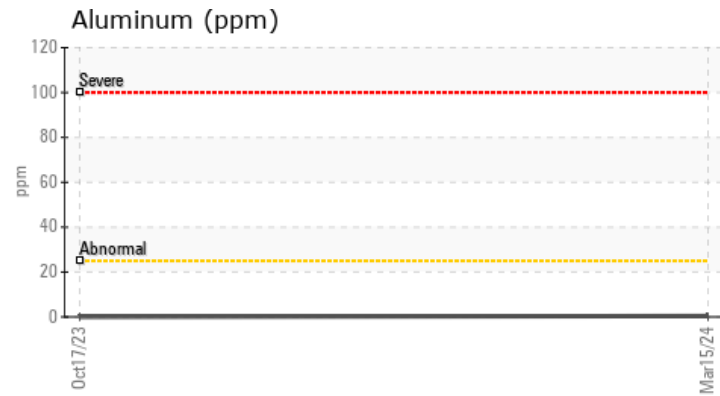
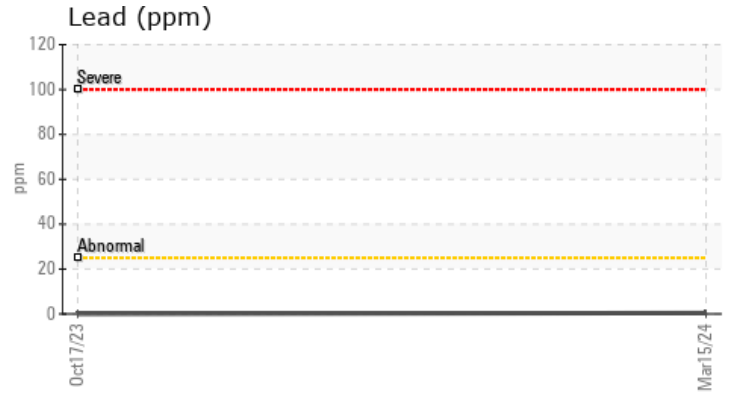
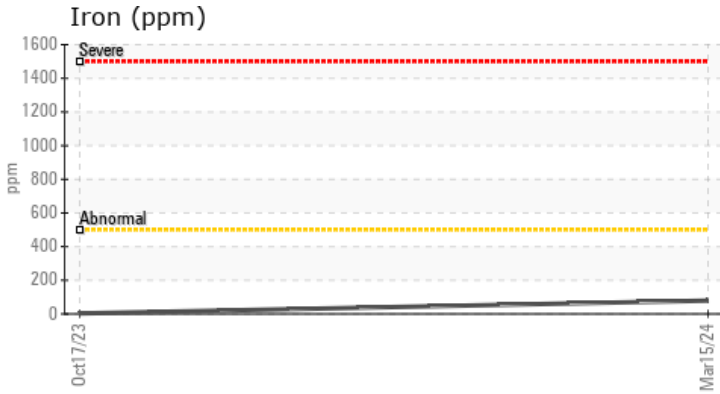
**Depot:** VOLVO5054  
**Unique No:** 10969457  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS







# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP431493  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP431493	VCP396365	---	---
Sample Date	15 Mar 2024	17 Oct 2023	---	---
Machine Hours	9526	8583	---	---
Oil Hours	1000	2000	---	---
Oil Changed	Not 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 @ 40°C	cSt	█ 143	█ 150	---	---
-------------	-----	-------	-------	-----	-----



## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 3	█ 3	---	---
Sodium	ppm	█ <1	█ <1	---	---
Potassium	ppm	█ 0	█ 0	---	---

### 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	█ 88	█ 57	---	---
Copper	ppm	█ 5	█ 7	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 1	█ 1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 11	█ 7	---	---
Magnesium	ppm	█ 0	█ 3	---	---
Zinc	ppm	█ 17	█ 20	---	---
Phosphorus	ppm	█ 2046	█ 1799	---	---
Barium	ppm	█ <1	█ 1	---	---
Boron	ppm	█ 200	█ 86	---	---

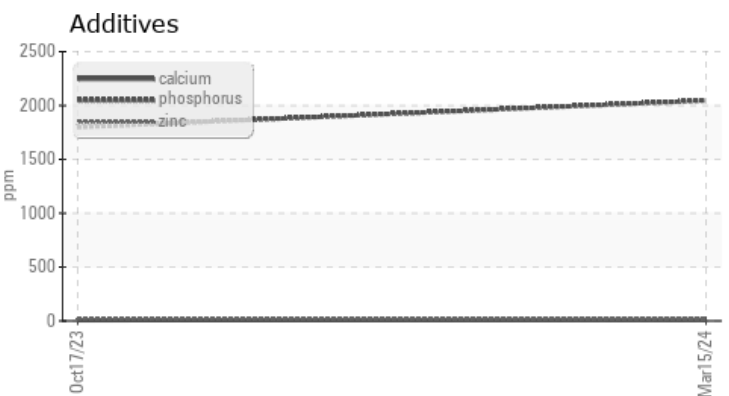
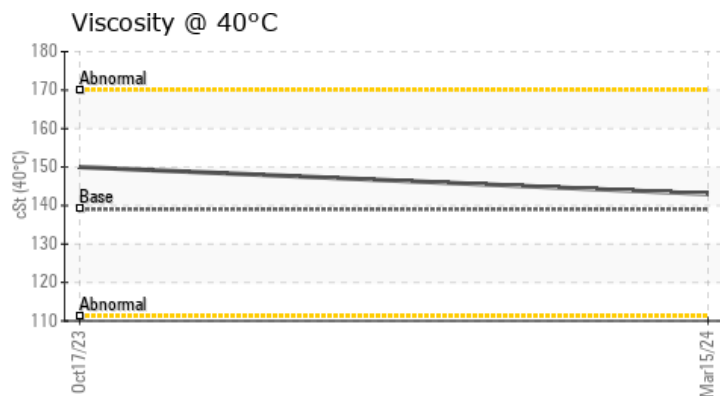
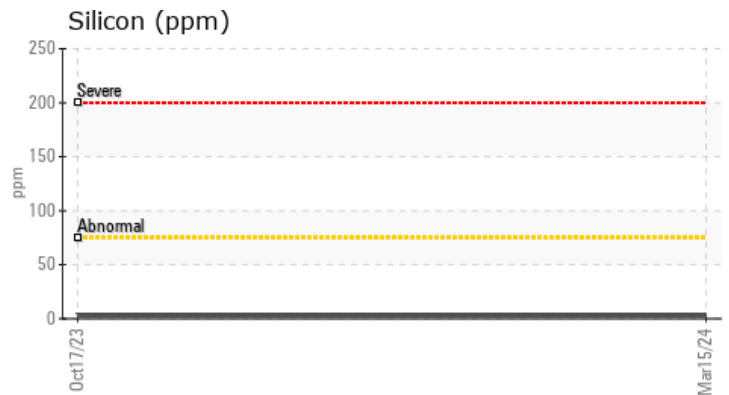
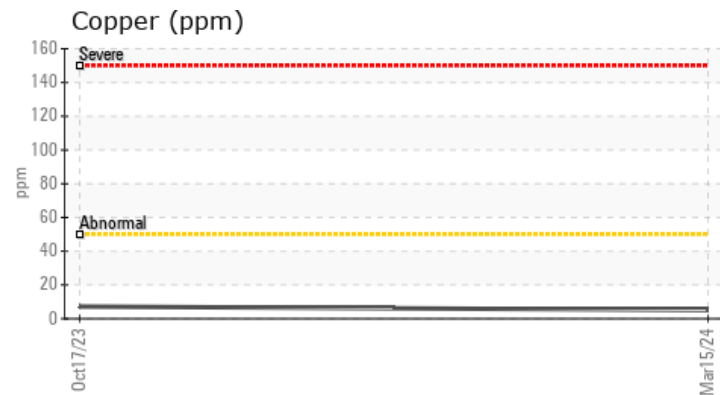
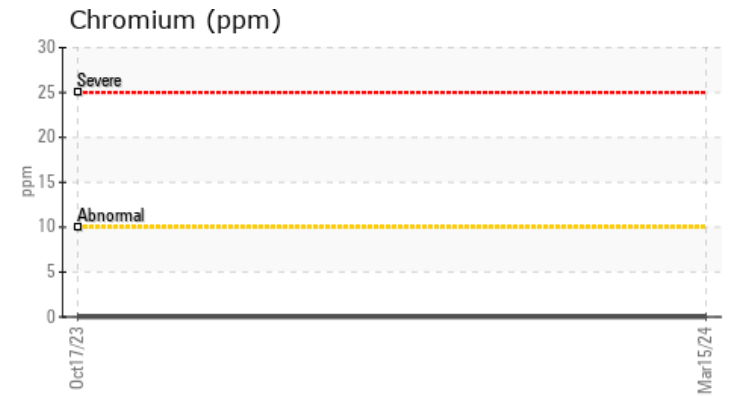
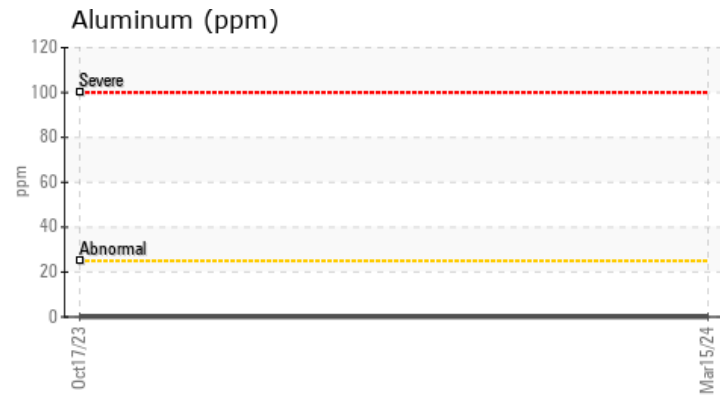
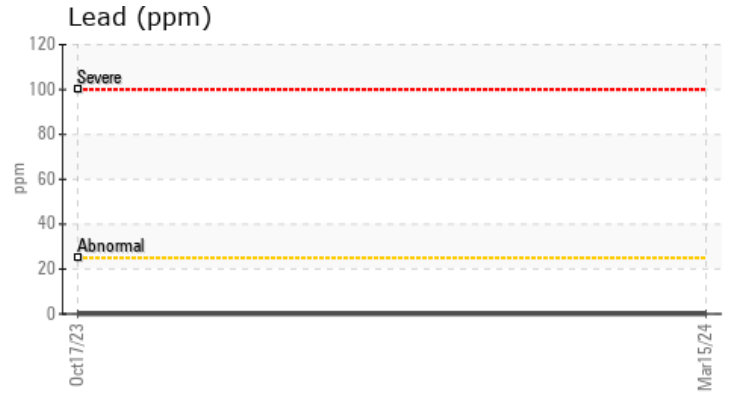
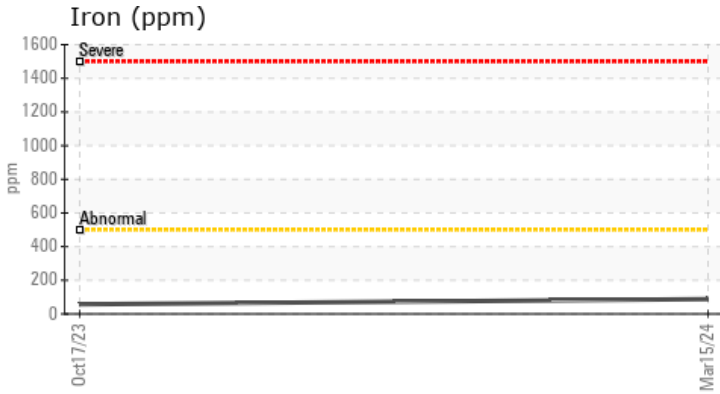
**Depot:** VOLVO5054  
**Unique No:** 10969463  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - REAR LEFT FINAL DRIVE



**Sample No:** VCP434155  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	VCP434155	VCP396358	---	---
Sample Date	15 Mar 2024	17 Oct 2023	---	---
Machine Hours	9526	8583	---	---
Oil Hours	1000	2000	---	---
Oil Changed	Not 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 @ 40°C	cSt	█ 153	█ 152	---	---
-------------	-----	-------	-------	-----	-----



## CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 3	█ 2	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ 0	█ 0	---	---

## 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	█ 48	█ 23	---	---
Copper	ppm	█ 15	█ 13	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 8	█ 5	---	---
Magnesium	ppm	█ 0	█ 3	---	---
Zinc	ppm	█ 20	█ 13	---	---
Phosphorus	ppm	█ 2043	█ 1899	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 126	█ 104	---	---

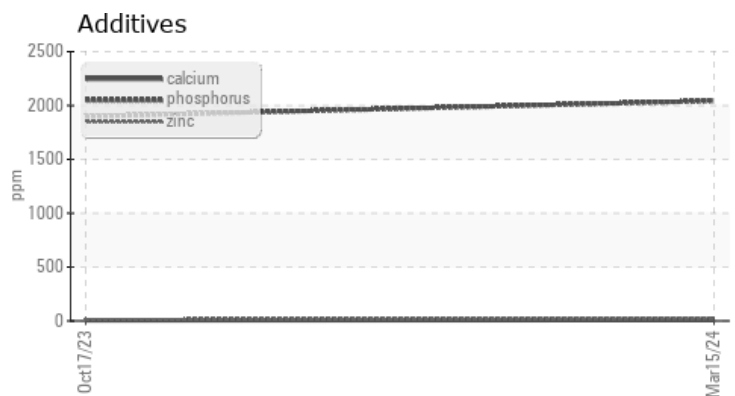
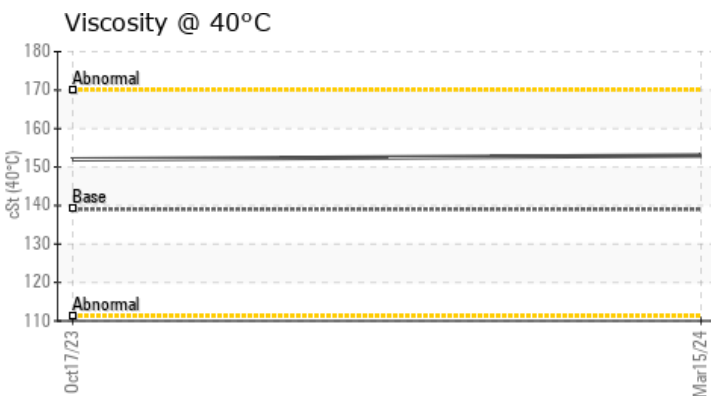
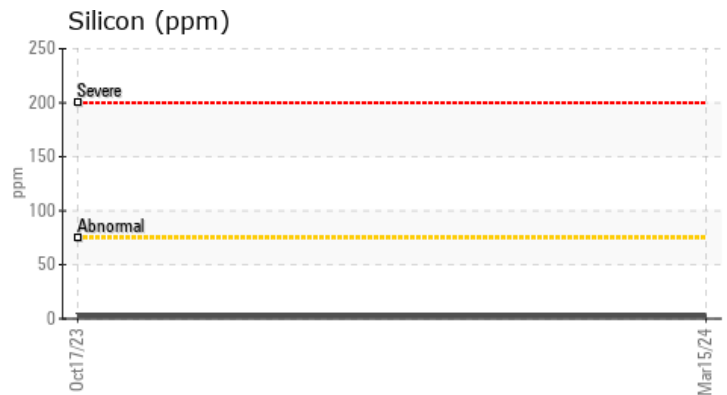
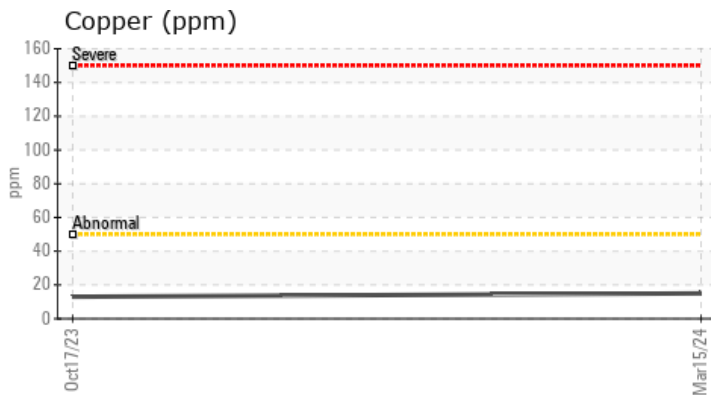
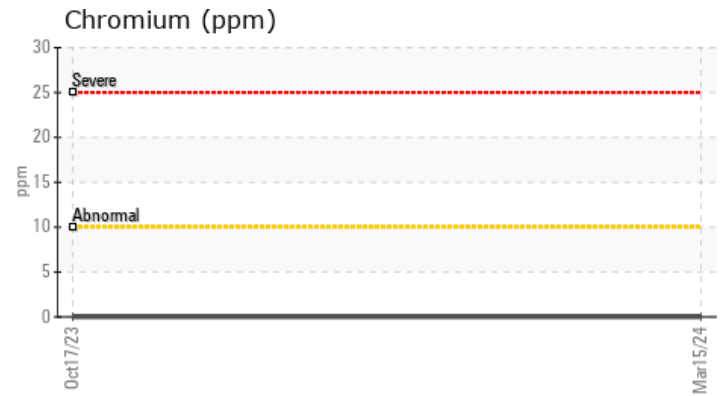
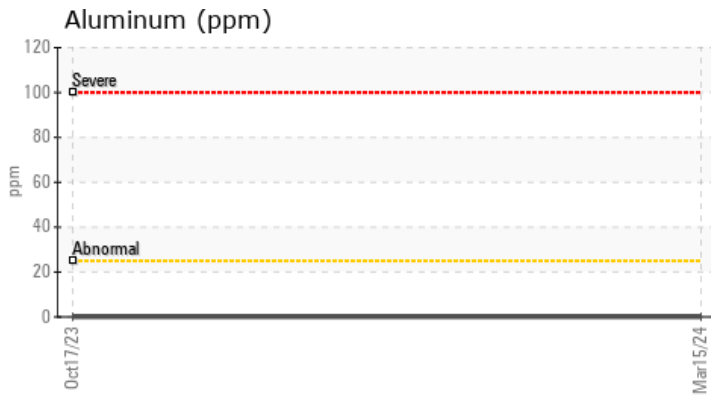
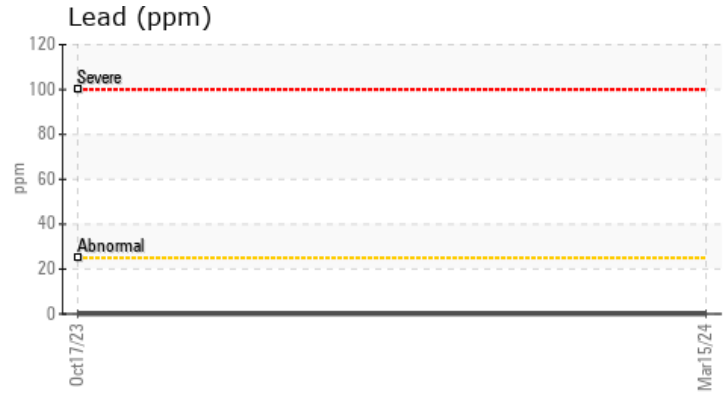
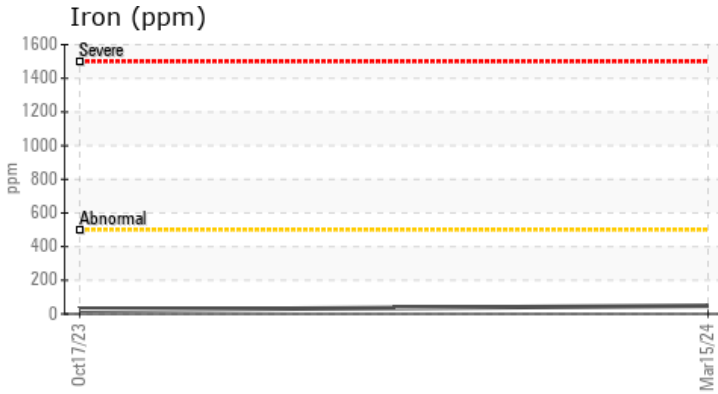
**Depot:** VOLVO5054  
**Unique No:** 10969460  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS



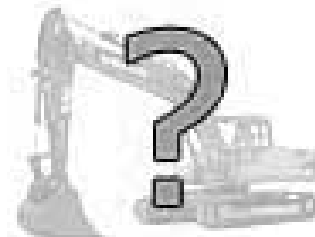


# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - REAR AXLE



**Sample No:** VCP434858  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	<b>VCP434858</b>	VCP395854	---	---
Sample Date	<b>15 Mar 2024</b>	06 Oct 2023	---	---
Machine Hours	<b>9526</b>	8583	---	---
Oil Hours	<b>1000</b>	2000	---	---
Oil Changed	<b>Not Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	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	<b>150</b>	152	---	---
-------------	-----	------------	-----	-----	-----



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>3</b>	3	---	---
Sodium	ppm	<b>0</b>	0	---	---
Potassium	ppm	<b>0</b>	0	---	---



## WEAR METALS

Iron	ppm	<b>49</b>	17	---	---
Copper	ppm	<b>15</b>	16	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>&lt;1</b>	0	---	---
Aluminum	ppm	<b>0</b>	0	---	---
Chromium	ppm	<b>0</b>	0	---	---
Molybdenum	ppm	<b>0</b>	0	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>9</b>	11	---	---
Magnesium	ppm	<b>0</b>	3	---	---
Zinc	ppm	<b>22</b>	18	---	---
Phosphorus	ppm	<b>2107</b>	1789	---	---
Barium	ppm	<b>0</b>	<1	---	---
Boron	ppm	<b>129</b>	63	---	---

### 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.

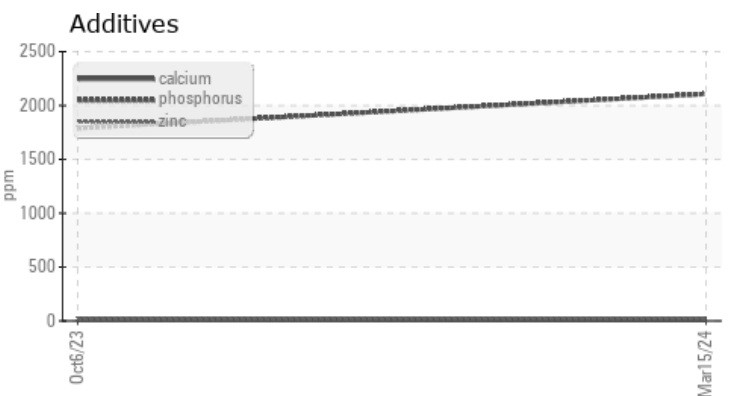
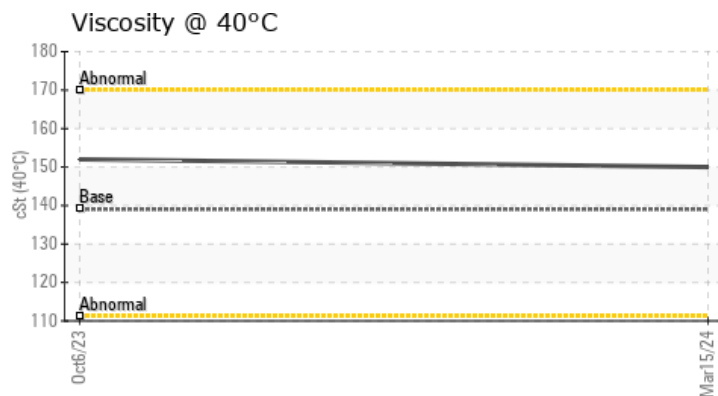
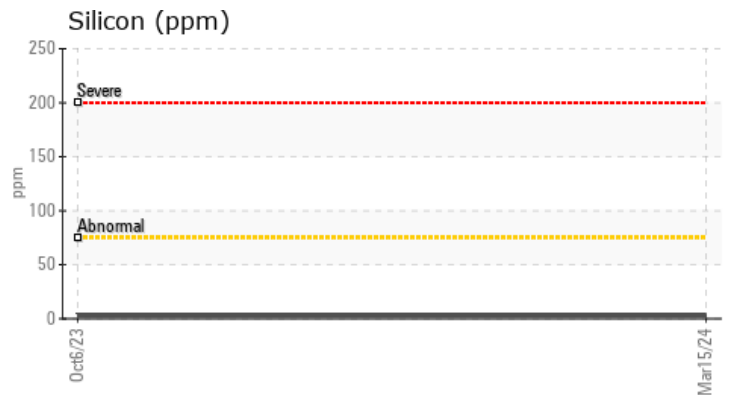
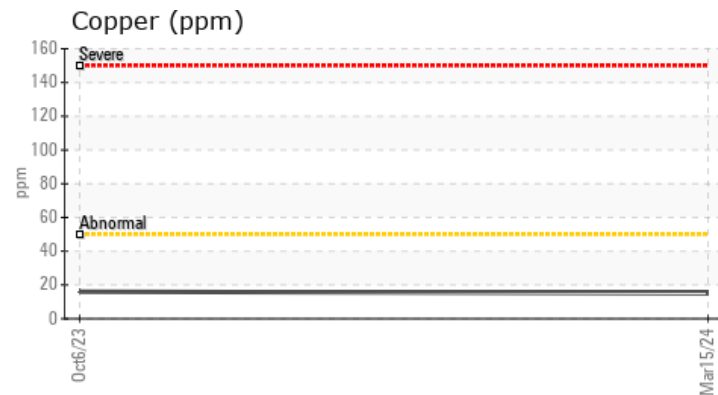
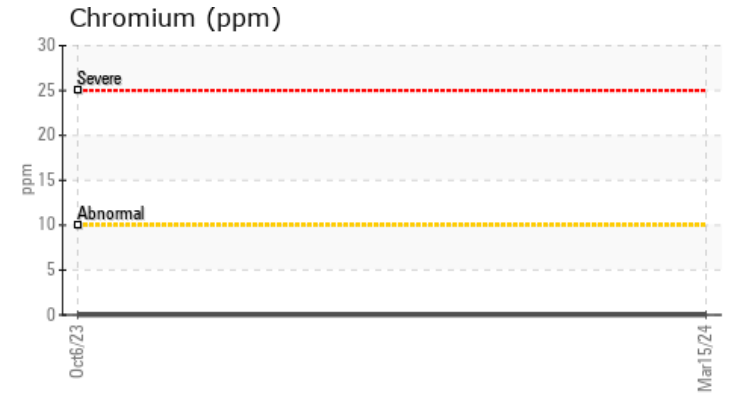
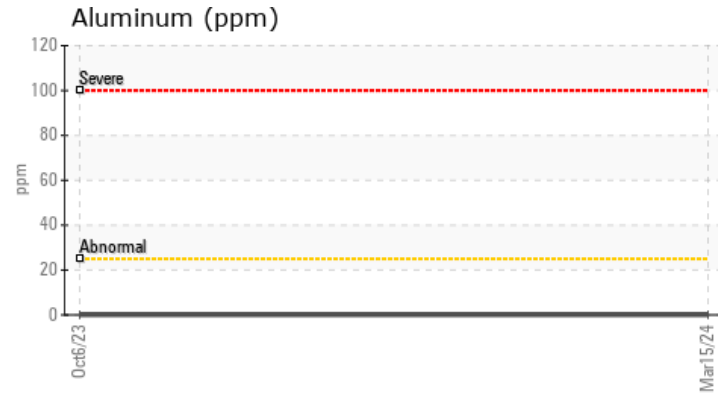
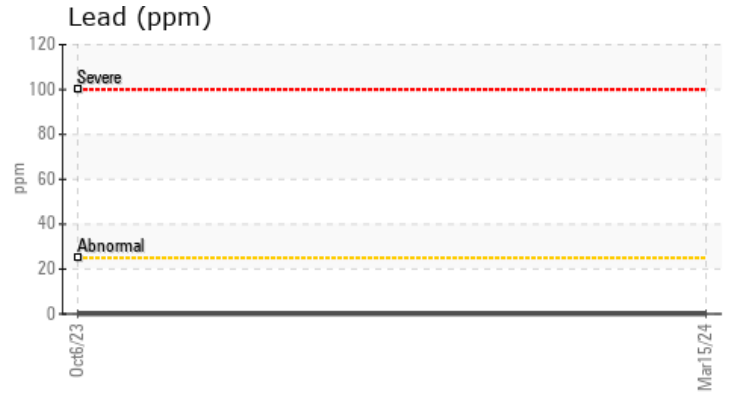
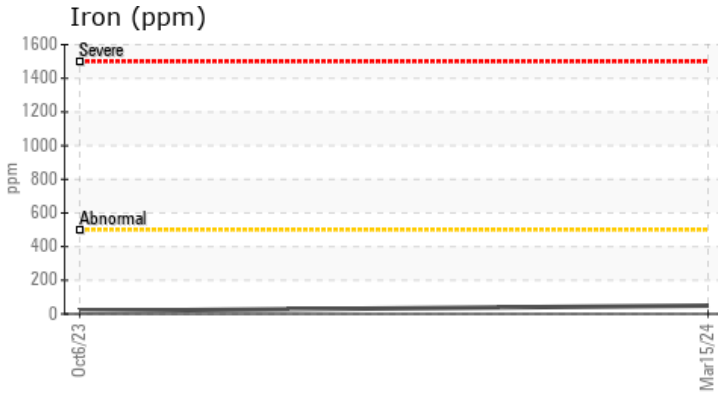
**Depot:** VOLVO5054  
**Unique No:** 10969459  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

497592 ALTER PEORIA SENNEBOGEN 835M 835.0.2632 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP431491  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** 497592 ALTER PEORIA



## SAMPLE INFORMATION

Sample Number	<b>VCP431491</b>	VCP396378	---	---
Sample Date	<b>15 Mar 2024</b>	17 Oct 2023	---	---
Machine Hours	<b>9526</b>	8583	---	---
Oil Hours	<b>1000</b>	1000	---	---
Oil Changed	<b>Not Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	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	<b>151</b>	152	---	---
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>3</b>	2	---	---
Sodium	ppm	<b>0</b>	0	---	---
Potassium	ppm	<b>0</b>	0	---	---



## WEAR METALS

Iron	ppm	<b>40</b>	16	---	---
Copper	ppm	<b>15</b>	11	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>&lt;1</b>	0	---	---
Aluminum	ppm	<b>0</b>	0	---	---
Chromium	ppm	<b>0</b>	0	---	---
Molybdenum	ppm	<b>0</b>	0	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>11</b>	6	---	---
Magnesium	ppm	<b>0</b>	3	---	---
Zinc	ppm	<b>26</b>	12	---	---
Phosphorus	ppm	<b>2145</b>	1800	---	---
Barium	ppm	<b>0</b>	<1	---	---
Boron	ppm	<b>102</b>	103	---	---

## 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:** 10969458  
**Signed:** Don Baldrige  
**Report Date:** 13 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

