



# CONSTRUCTION EQUIPMENT

SPM702435 AMG RES SENNEBOGEN 830ME 830.0.2822 - DIESEL ENGINE



**Sample No:** VCP446187  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM702435 AMG RES



## SAMPLE INFORMATION

Sample Number	<b>VCP446187</b>	VCP427369	VCP423239	VCP382785
Sample Date	<b>23 Apr 2024</b>	19 Oct 2023	17 Oct 2023	10 Jul 2023
Machine Hours	<b>9464</b>	9029	1492	8436
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT CO - ORLAND PARK**  
5000 INDUSTRIAL HWY  
GARY, IN  
US 46406  
Contact: DAVE ENG  
DAVE.ENG@ALTG.COM  
T: (312)350-2560  
F:

## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.5	14.0	13.4
Base Number (BN)	mg KOH/g	<b>7.8</b>	7.9	9.9	5.9
Oxidation (PA)	%	<b>65</b>	70	60	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 suitable for further service.

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.2	0.4
Nitration (PA)	%	<b>65</b>	72	54	83
Sulfation (PA)	%	<b>56</b>	57	52	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	3	6	3
Sodium	ppm	<b>3</b>	4	1	11
Potassium	ppm	<b>5</b>	2	2	0

## WEAR METALS

Iron	ppm	<b>11</b>	12	15	19
Copper	ppm	<b>&lt;1</b>	<1	4	<1
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>&lt;1</b>	2	14	<1
Chromium	ppm	<b>0</b>	<1	1	<1
Molybdenum	ppm	<b>59</b>	56	55	65
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1

## ADDITIVES

Calcium	ppm	<b>1149</b>	996	1019	1195
Magnesium	ppm	<b>1026</b>	926	835	1121
Zinc	ppm	<b>1185</b>	1185	1137	1287
Phosphorus	ppm	<b>1001</b>	953	843	1089
Barium	ppm	<b>0</b>	0	12	0
Boron	ppm	<b>0</b>	<1	7	0

**Depot:** VOLVO8885  
**Unique No:** 11029613  
**Signed:** Wes Davis  
**Report Date:** 14 May 2024

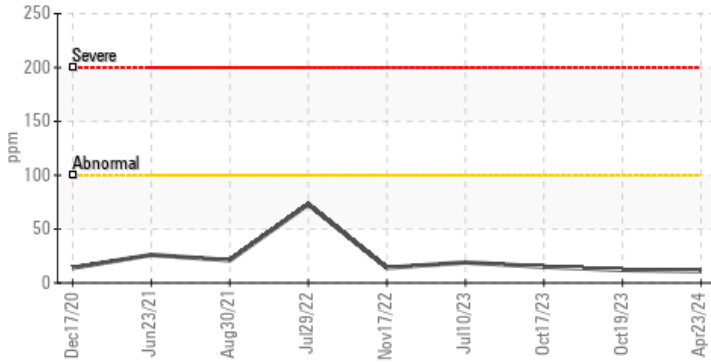


# CONSTRUCTION EQUIPMENT

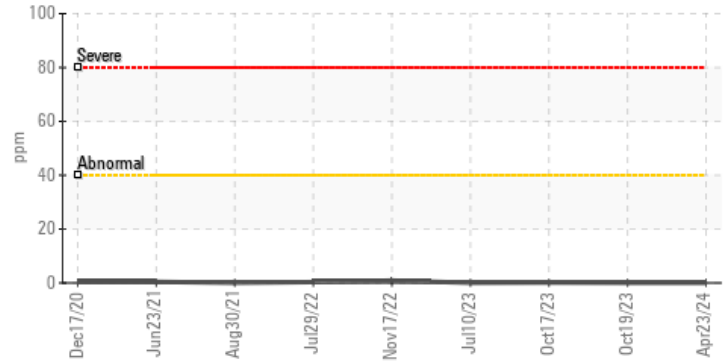


## GRAPHS

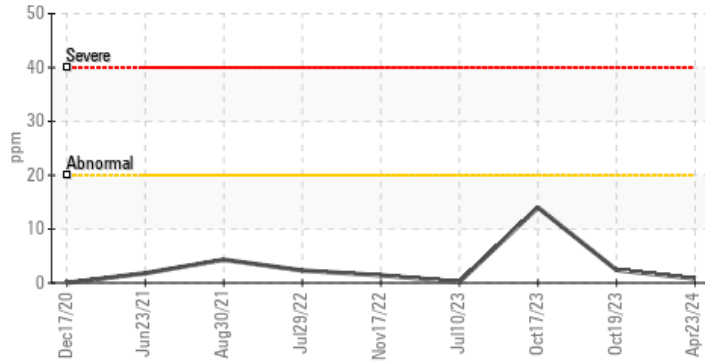
### Iron (ppm)



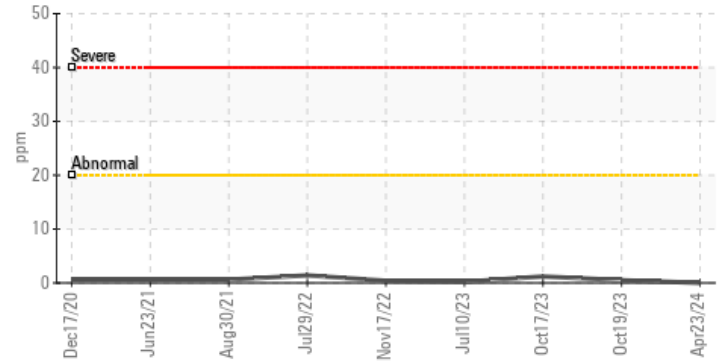
### Lead (ppm)



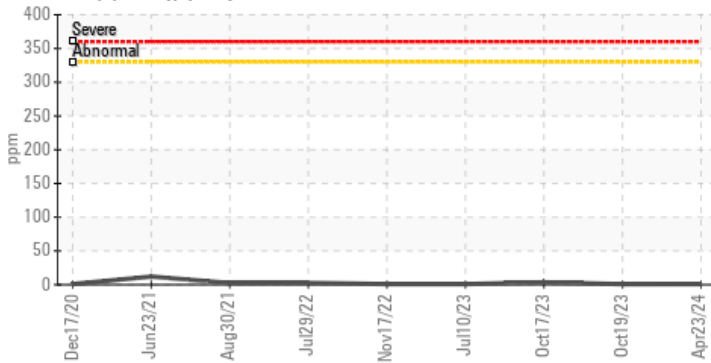
### Aluminum (ppm)



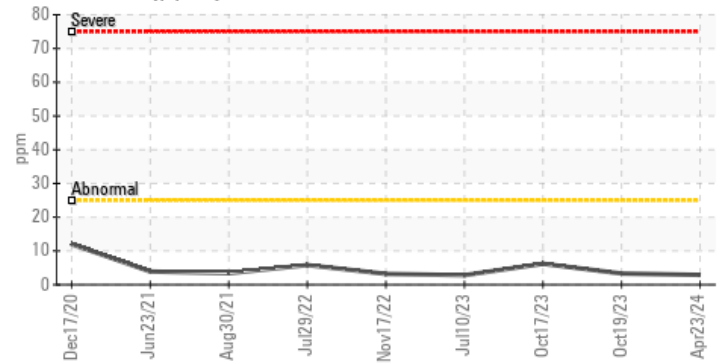
### Chromium (ppm)



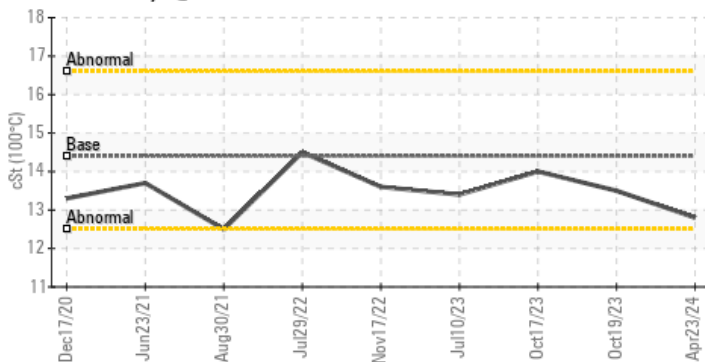
### Copper (ppm)



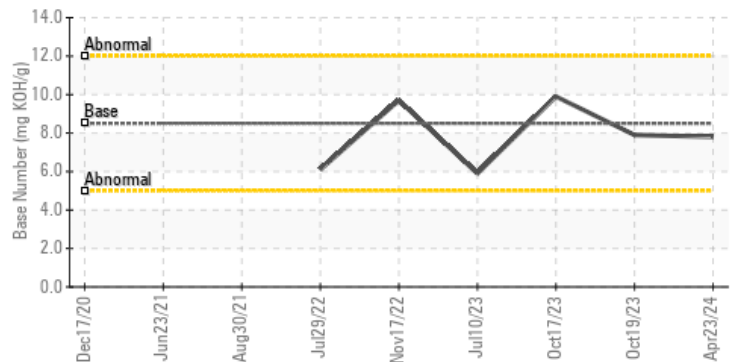
### Silicon (ppm)



### Viscosity @ 100°C



### Base Number



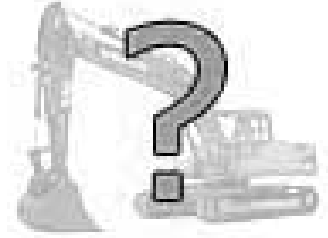


# CONSTRUCTION EQUIPMENT

SPM620969 SENNEBOGEN 830ME 830.0.2822 - TRANSMISSION (AUTO)



**Sample No:** VCP425300  
**Oil Type:** ATF  
**Job No:** SPM620969



## SAMPLE INFORMATION

Sample Number	VCP425300	---	---	---
Sample Date	17 Oct 2023	---	---	---
Machine Hours	1492	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	NORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 28.4	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 13	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

## 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	█ 45	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 2	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ 6	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	█ 82	---	---	---
Magnesium	ppm	█ 16	---	---	---
Zinc	ppm	█ 30	---	---	---
Phosphorus	ppm	█ 169	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 76	---	---	---

**Depot:** VOLVO8885  
**Unique No:** 10884201  
**Signed:** Don Baldrige  
**Report Date:** 19 Feb 2024

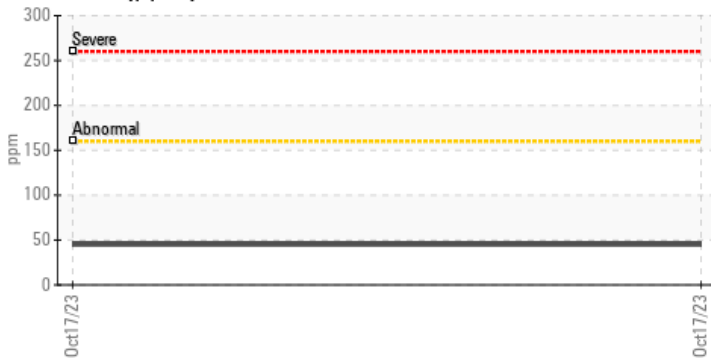


# CONSTRUCTION EQUIPMENT



## GRAPHS

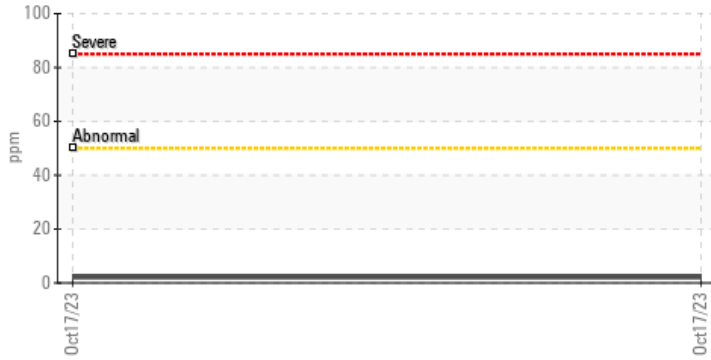
### Iron (ppm)



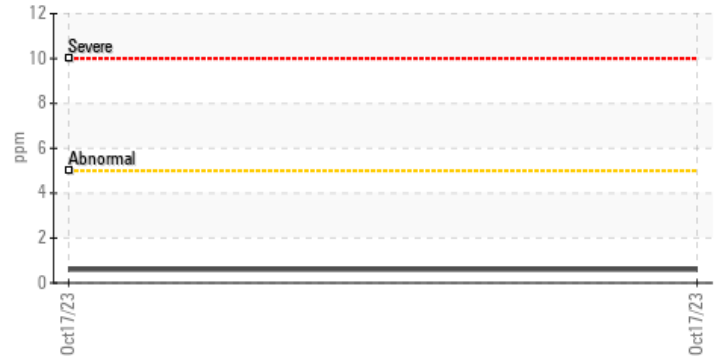
### Lead (ppm)



### Aluminum (ppm)



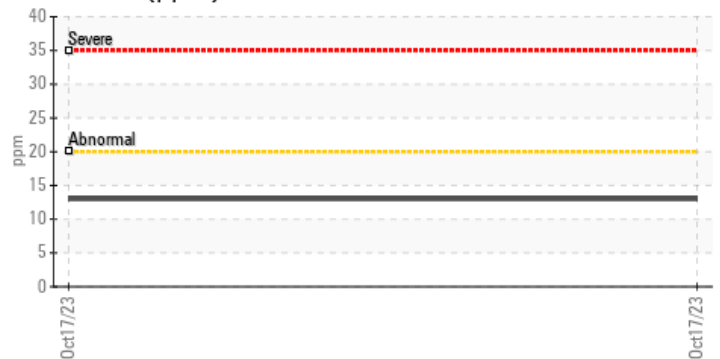
### Chromium (ppm)



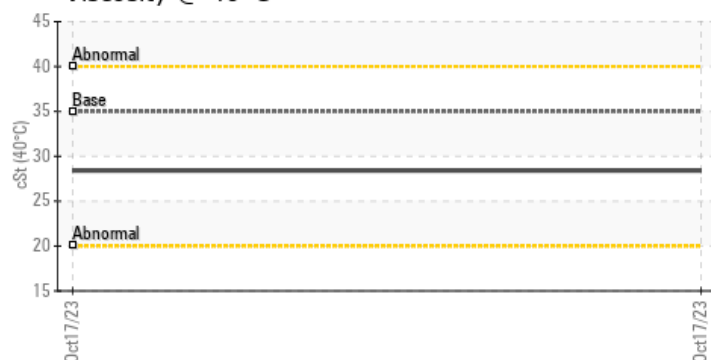
### Copper (ppm)



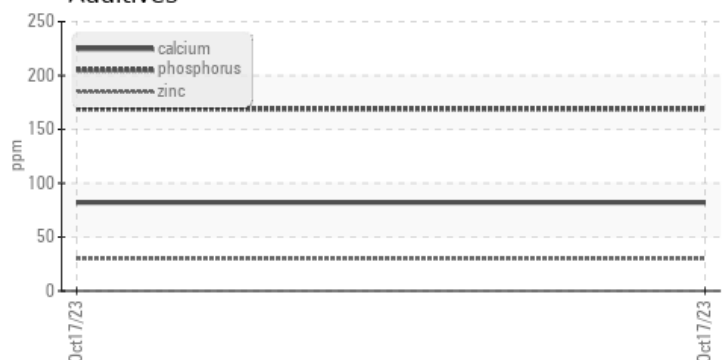
### Silicon (ppm)



### Viscosity @ 40°C



### Additives





# CONSTRUCTION EQUIPMENT

SPM702435 AMG RES SENNEBOGEN 830ME 830.0.2822 - HYDRAULIC SYSTEM



**Sample No:** VCP446190  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM702435 AMG RES



## SAMPLE INFORMATION

Sample Number	<b>VCP446190</b>	VCP427365	VCP423274	VCP382783
Sample Date	<b>23 Apr 2024</b>	19 Oct 2023	17 Oct 2023	10 Jul 2023
Machine Hours	<b>9464</b>	9029	1492	8436
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>43.5</b>	41.7	42.8	43.3
Acid Number (AN)	mg KOH/g	<b>0.39</b>	0.50	0.26	0.33

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>6349</b>	55972	4618	1335
Particles >6µm		<b>277</b>	24559	578	237
Particles >14µm		<b>12</b>	5277	19	16
ISO 4406:1999 (c)		<b>20/15/11</b>	23/22/20	19/16/11	18/15/11
Silicon	ppm	<b>0</b>	0	3	<1
Sodium	ppm	<b>&lt;1</b>	0	<1	0
Potassium	ppm	<b>0</b>	0	0	<1

## Diagnosis

The 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 a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## WEAR METALS

Iron	ppm	<b>2</b>	<1	2	2
Copper	ppm	<b>0</b>	12	1	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>0</b>	<1	0	0
Chromium	ppm	<b>2</b>	2	<1	<1
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>67</b>	93	58	65
Magnesium	ppm	<b>3</b>	12	<1	4
Zinc	ppm	<b>465</b>	500	394	477
Phosphorus	ppm	<b>372</b>	378	307	357
Barium	ppm	<b>&lt;1</b>	0	0	1
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO8885  
**Unique No:** 11029976  
**Signed:** Wes Davis  
**Report Date:** 15 May 2024

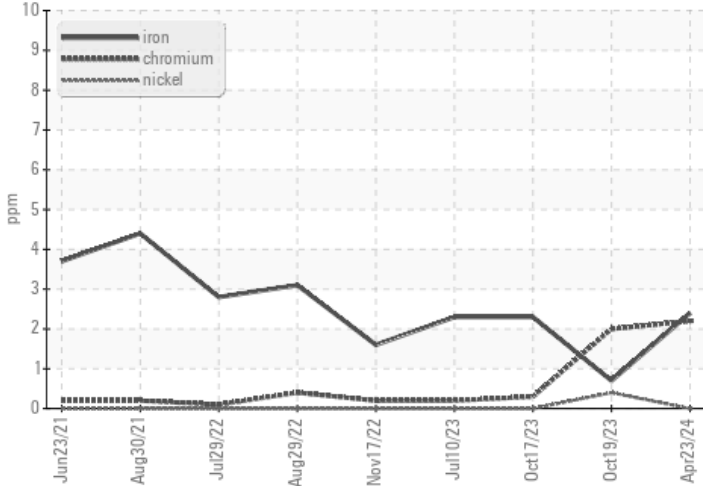


# CONSTRUCTION EQUIPMENT

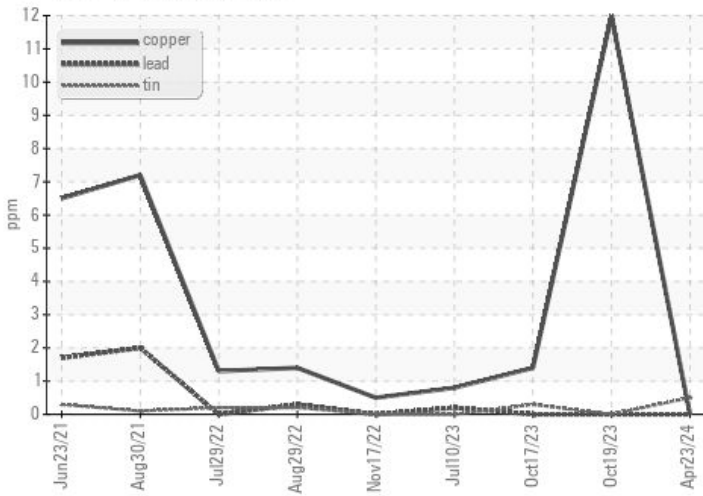


## GRAPHS

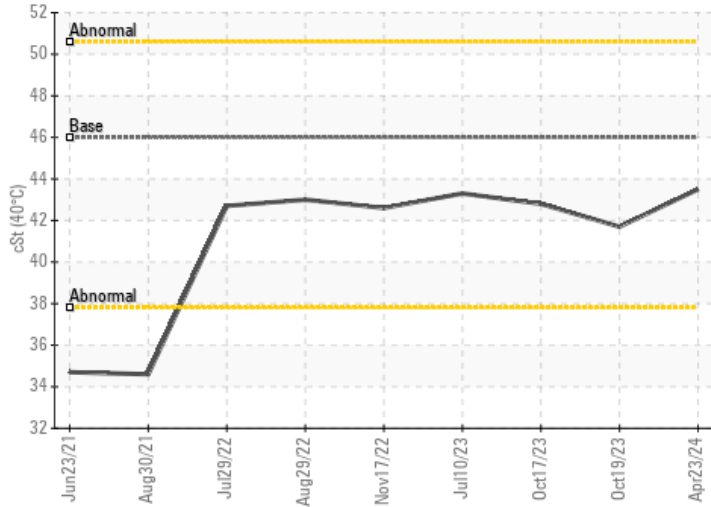
### Ferrous Alloys



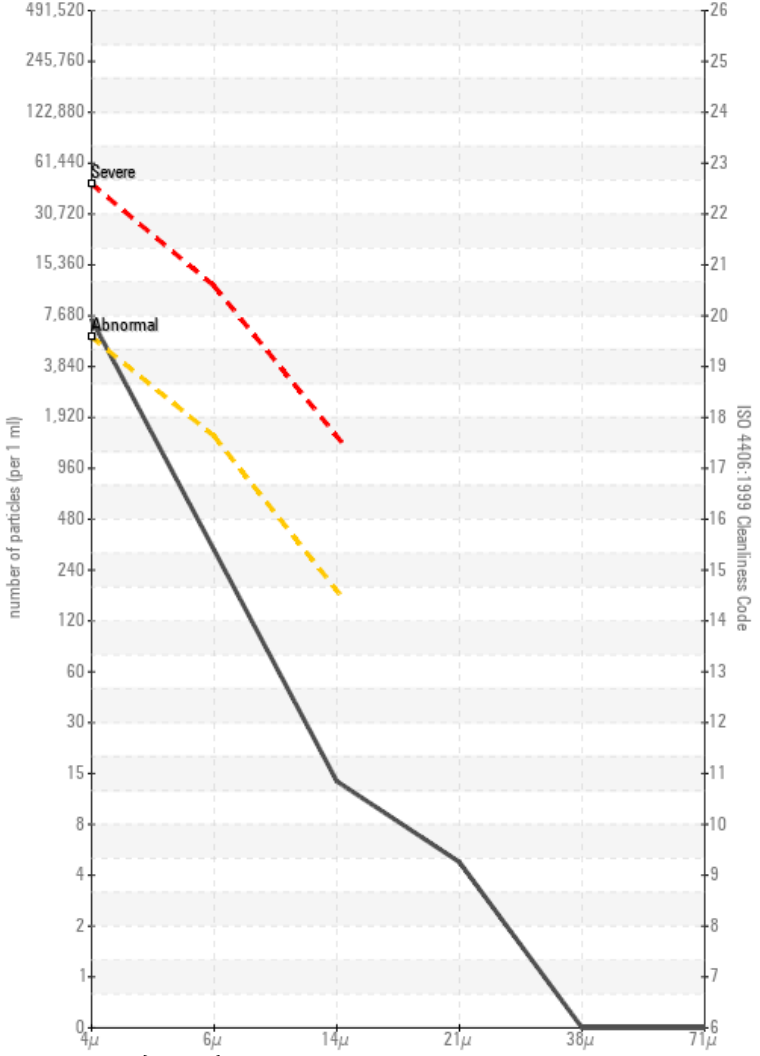
### Non-ferrous Metals



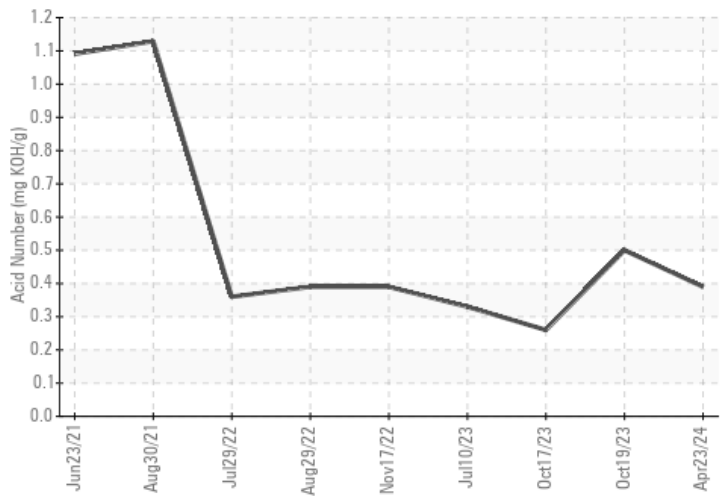
### Viscosity @ 40°C



### Particle Count



### Acid Number



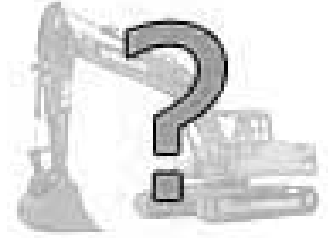


# CONSTRUCTION EQUIPMENT

SPM702435 AMG SENNEBOGEN 830ME 830.0.2822 - SWING DRIVE



**Sample No:** VCP446183  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM702435 AMG



## SAMPLE INFORMATION

Sample Number	VCP446183	VCP05363127	---	---
Sample Date	23 Apr 2024	30 Aug 2021	---	---
Machine Hours	9464	3431	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---

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F:



## OIL CONDITION

Visc @ 40°C	cSt	221	222	---	---
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## CONTAMINATION

Water	%	6.35	NEG	---	---
Silicon	ppm	21	7	---	---
Sodium	ppm	<1	3	---	---
Potassium	ppm	0	<1	---	---

## Diagnosis

We advise that you check for the source of water entry. 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. Gear wear is indicated. Bearing and/or bushing wear is indicated. There is a very high concentration of water present in the oil. The oil is no longer serviceable.



## WEAR METALS

Iron	ppm	1473	945	---	---
Copper	ppm	586	108	---	---
Lead	ppm	7	<1	---	---
Tin	ppm	50	14	---	---
Aluminum	ppm	3	5	---	---
Chromium	ppm	12	10	---	---
Molybdenum	ppm	1	<1	---	---
Nickel	ppm	<1	3	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	12	8	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	1206	11	---	---
Magnesium	ppm	10	1	---	---
Zinc	ppm	518	75	---	---
Phosphorus	ppm	662	388	---	---
Barium	ppm	0	0	---	---
Boron	ppm	3	32	---	---

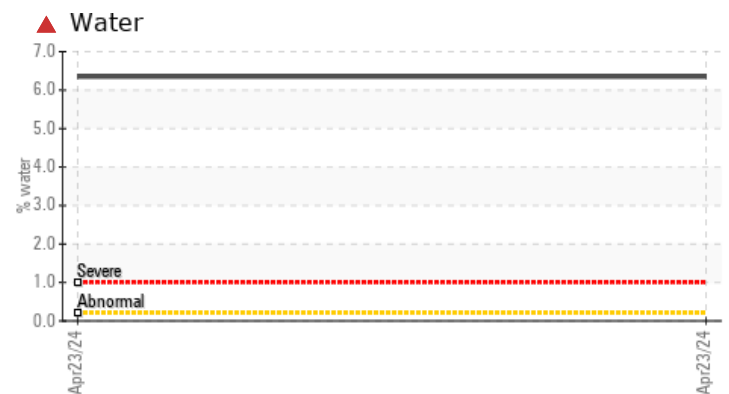
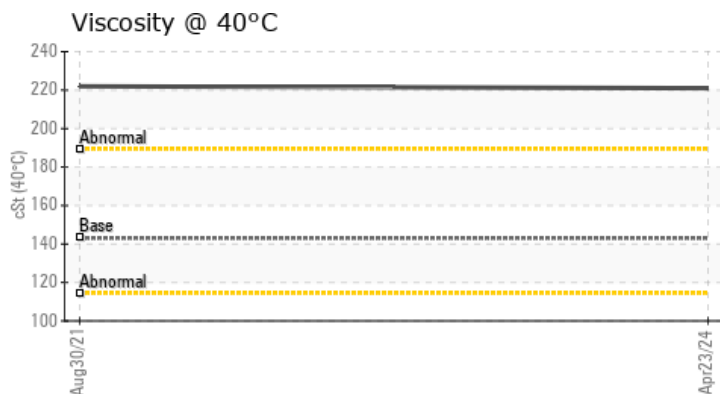
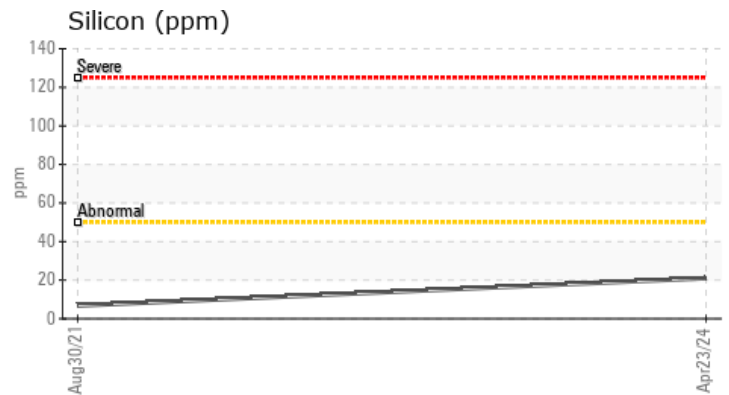
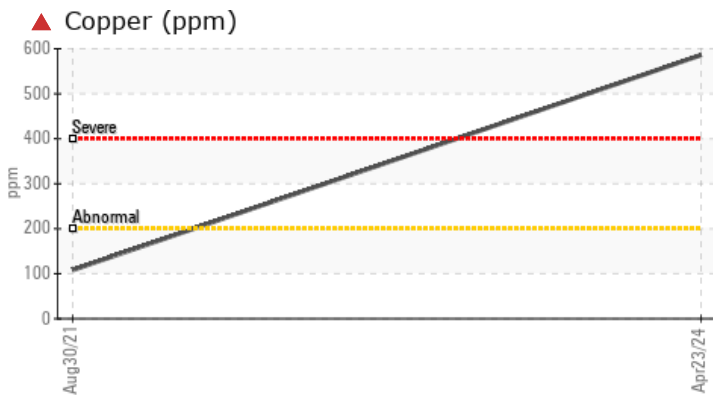
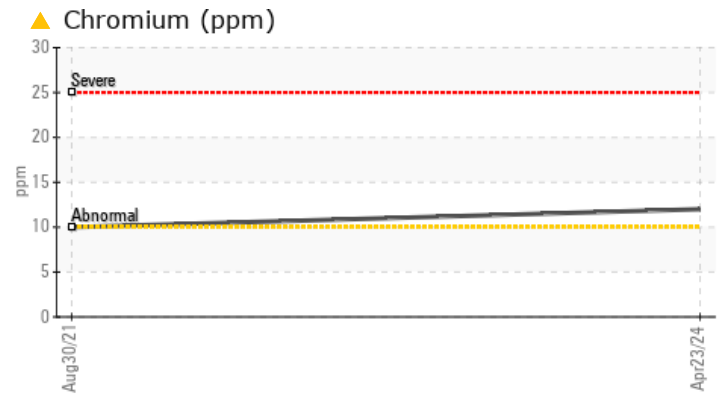
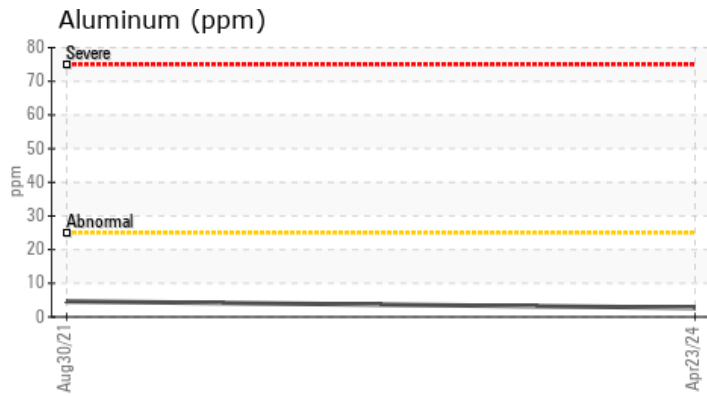
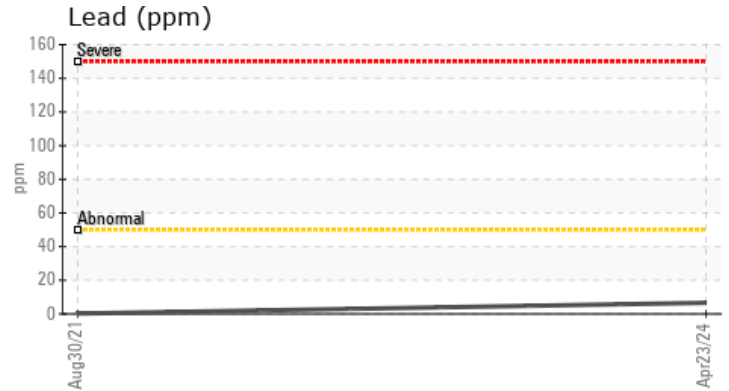
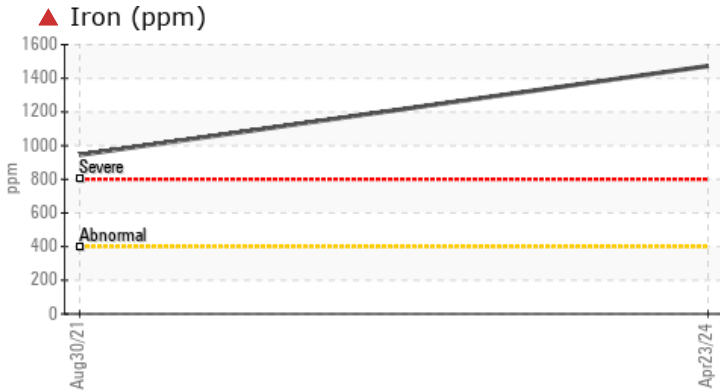
**Depot:** VOLVO8885  
**Unique No:** 11030508  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS







# CONSTRUCTION EQUIPMENT

SPM702435 AMG SENNEBOGEN 830ME 830.0.2822 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP446171  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM702435 AMG



## SAMPLE INFORMATION

Sample Number	VCP446171	VCP429097	---	---
Sample Date	23 Apr 2024	03 Feb 2024	---	---
Machine Hours	9464	9464	---	---
Oil Hours	0	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ATTENTION	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 116	● 54.6	---	---
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## CONTAMINATION

Water	%	NEG	█ 0.122	---	---
Silicon	ppm	█ 6	█ 9	---	---
Sodium	ppm	█ 8	█ 19	---	---
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	█ 103	█ 137	---	---
Copper	ppm	█ 18	█ 40	---	---
Lead	ppm	█ 0	█ 1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 0	█ 1	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 2	█ 3	---	---
Vanadium	ppm	<1	0	---	---

## ADDITIVES

Calcium	ppm	█ 1010	● 3130	---	---
Magnesium	ppm	█ 3	█ 12	---	---
Zinc	ppm	█ 447	● 1367	---	---
Phosphorus	ppm	█ 666	█ 1064	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 19	█ 94	---	---

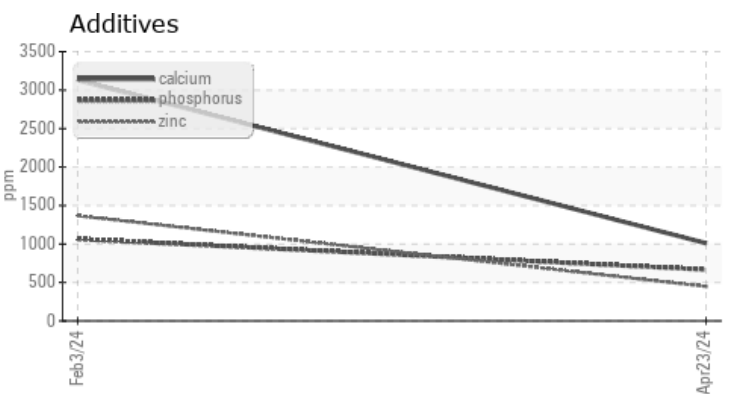
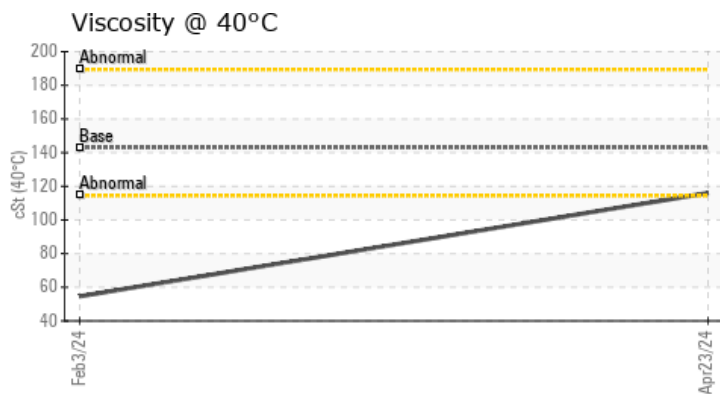
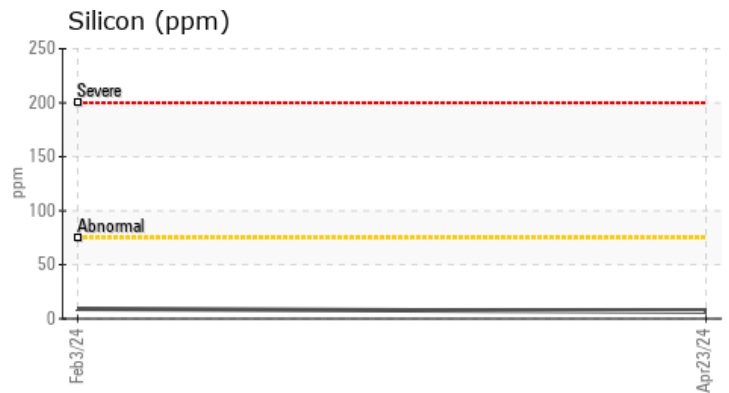
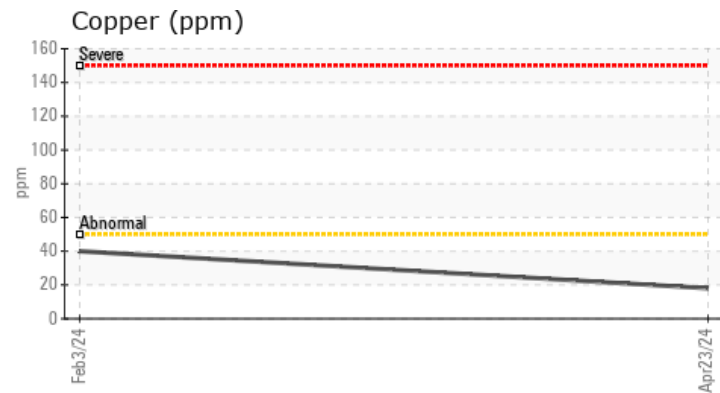
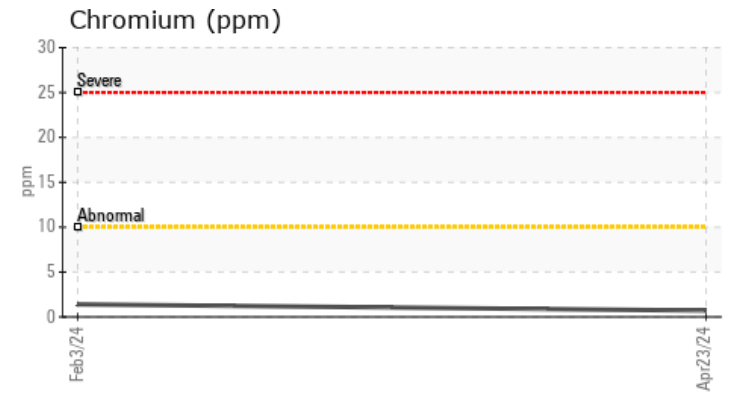
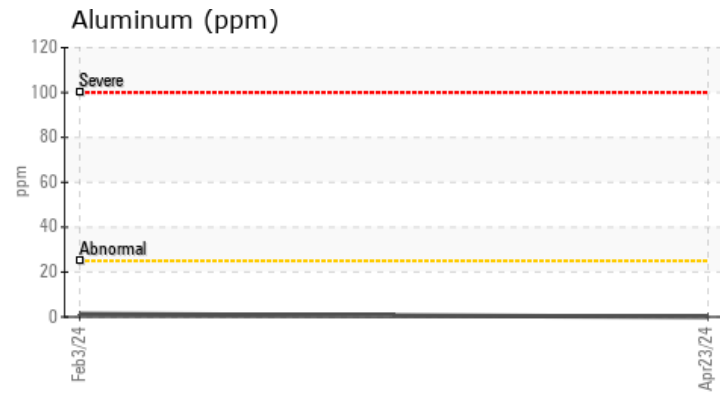
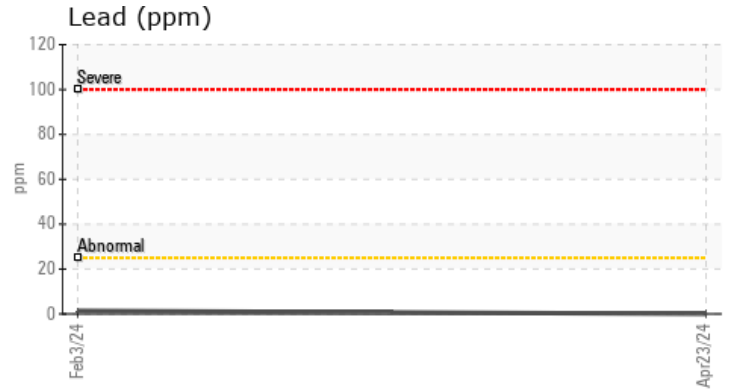
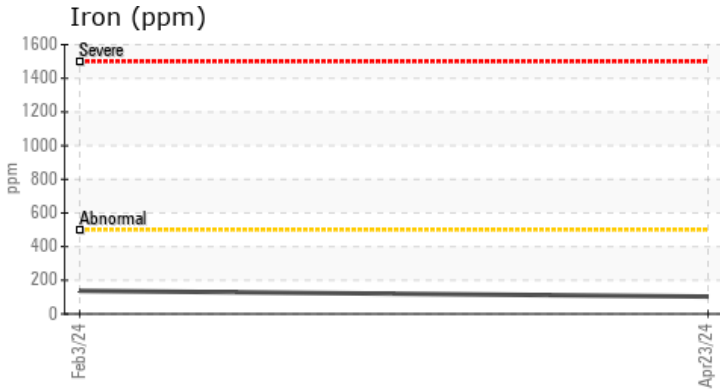
**Depot:** VOLVO8885  
**Unique No:** 11030509  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS



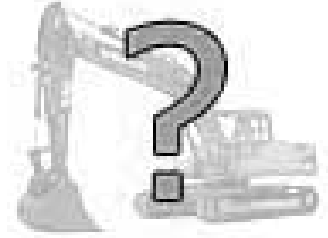


# CONSTRUCTION EQUIPMENT

SPM702435 AMG SENNEBOGEN 830ME 830.0.2822 - FRONT AXLE



**Sample No:** VCP446184  
**Oil Type:** TDTO FLUID SAE 50  
**Job No:** SPM702435 AMG



## SAMPLE INFORMATION

Sample Number	VCP446184	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	9464	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

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T: (312)350-2560  
F:



## OIL CONDITION

Visc @ 40°C	cSt	● 55.5	---	---	---
-------------	-----	--------	-----	-----	-----



## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 16	---	---	---
Sodium	ppm	■ 20	---	---	---
Potassium	ppm	■ 0	---	---	---

## Diagnosis

The oil 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 oil viscosity is lower than normal. Confirm oil type.



## WEAR METALS

Iron	ppm	■ 123	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 11	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	■ 3601	---	---	---
Magnesium	ppm	■ 11	---	---	---
Zinc	ppm	■ 1404	---	---	---
Phosphorus	ppm	■ 1141	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 121	---	---	---

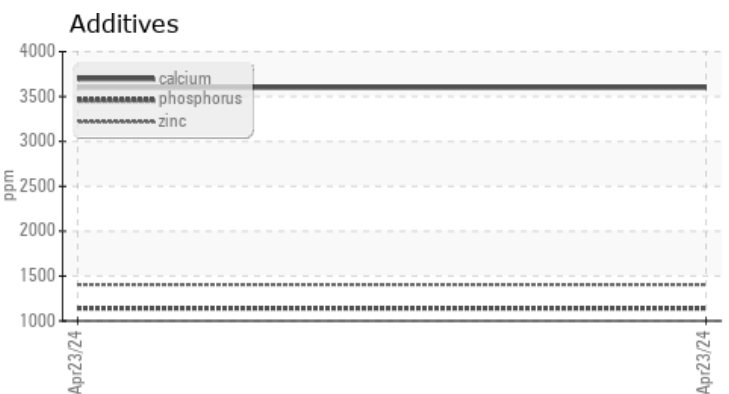
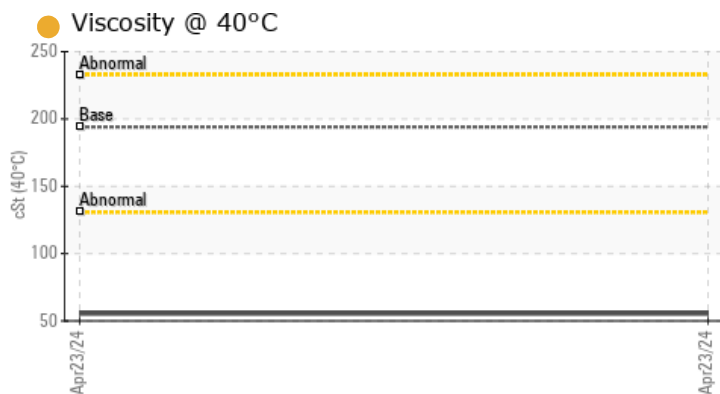
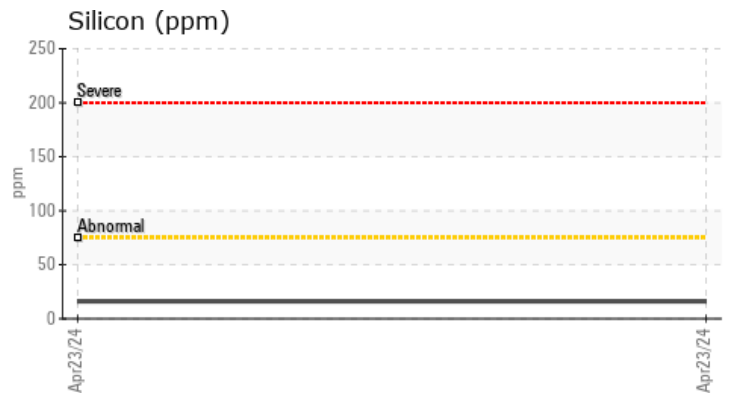
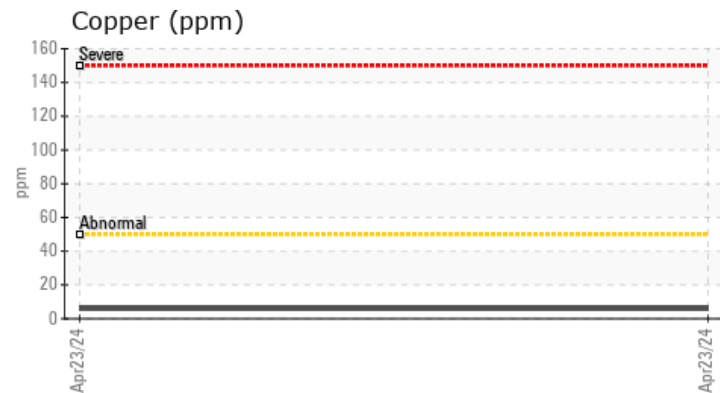
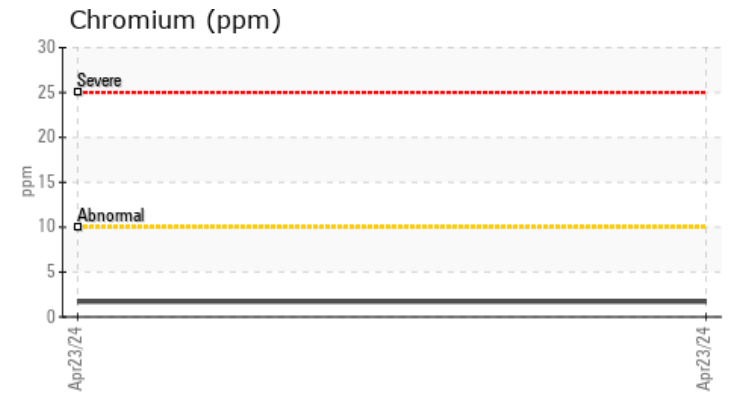
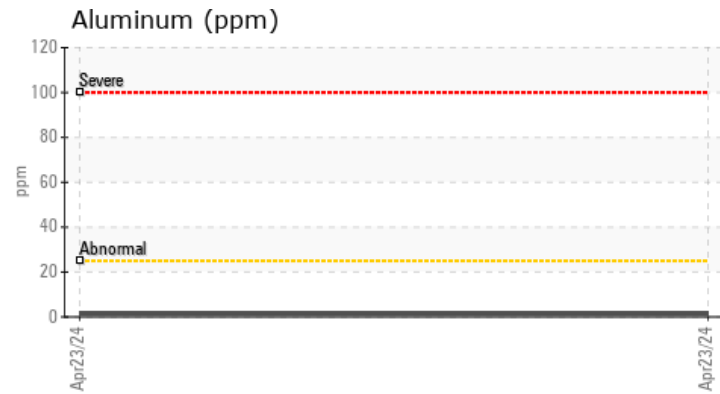
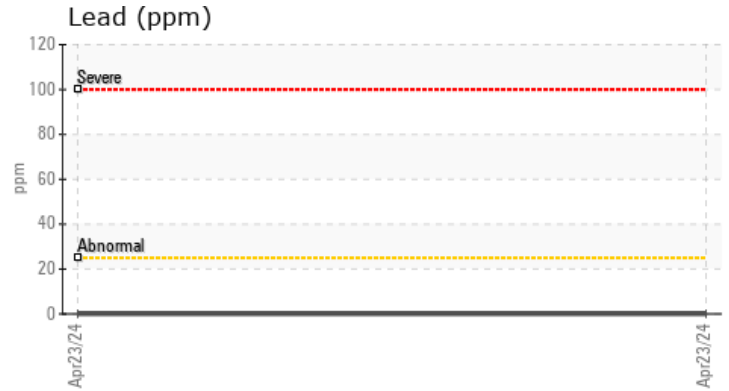
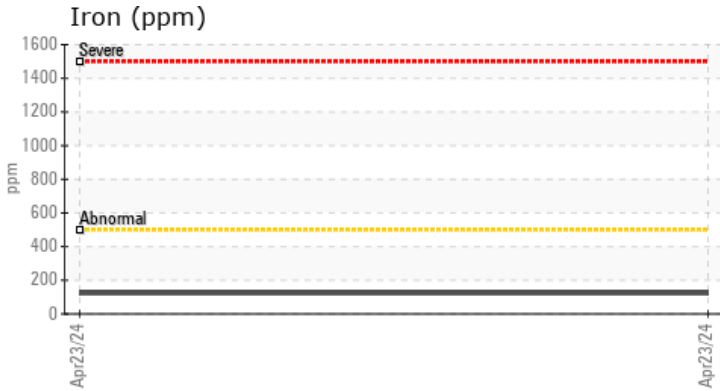
**Depot:** VOLVO8885  
**Unique No:** 11030499  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

SPM702435 AMG SENNEBOGEN 830ME 830.0.2822 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP446186  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM702435 AMG



## SAMPLE INFORMATION

Sample Number	VCP446186	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	9464	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

**ALTA EQUIPMENT CO - ORLAND PARK**  
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US 46406  
Contact: DAVE ENG  
DAVE.ENG@ALTG.COM  
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F:



## OIL CONDITION

Visc @ 40°C	cSt	● 102	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 10	---	---	---
Potassium	ppm	■ <1	---	---	---

## Diagnosis

The oil 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 oil viscosity is lower than normal.



## WEAR METALS

Iron	ppm	■ 92	---	---	---
Copper	ppm	■ 17	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	■ 1362	---	---	---
Magnesium	ppm	■ 6	---	---	---
Zinc	ppm	■ 568	---	---	---
Phosphorus	ppm	■ 698	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 48	---	---	---

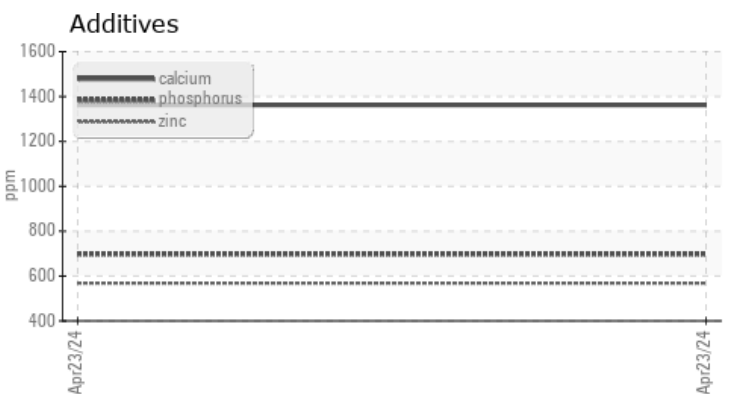
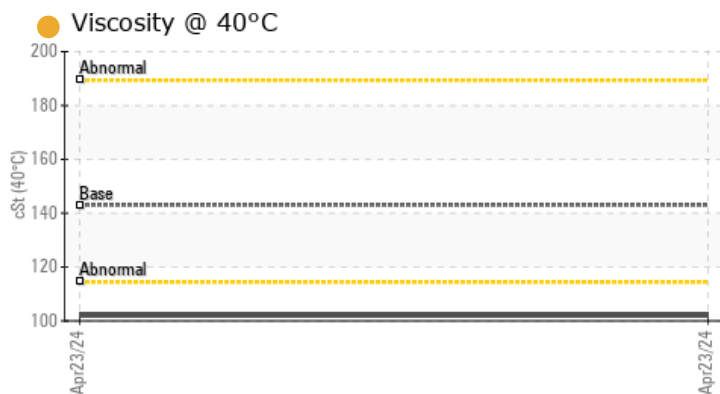
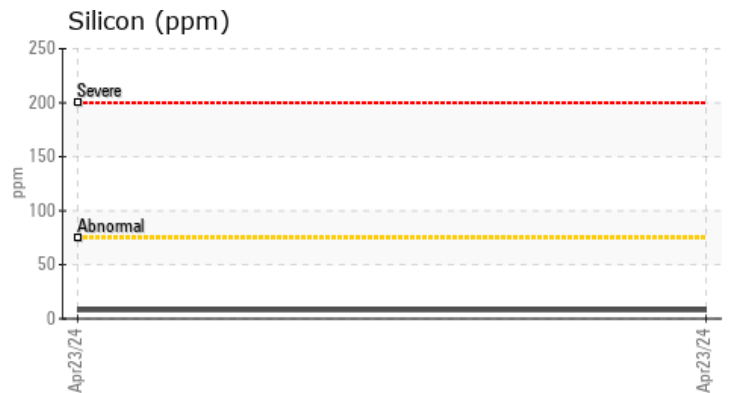
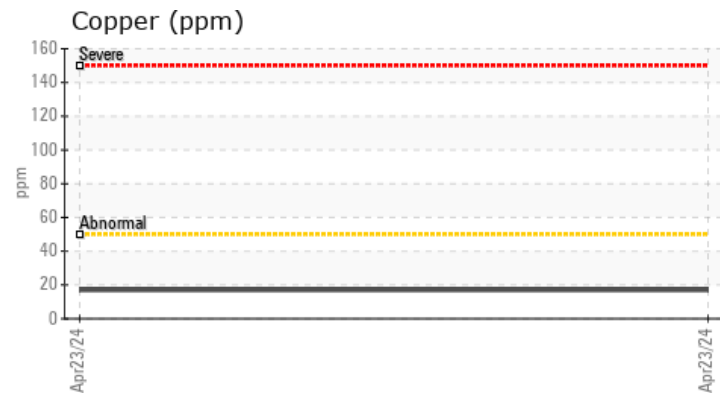
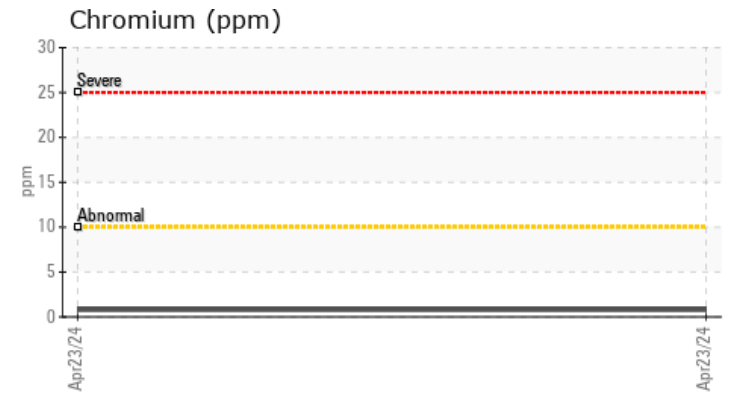
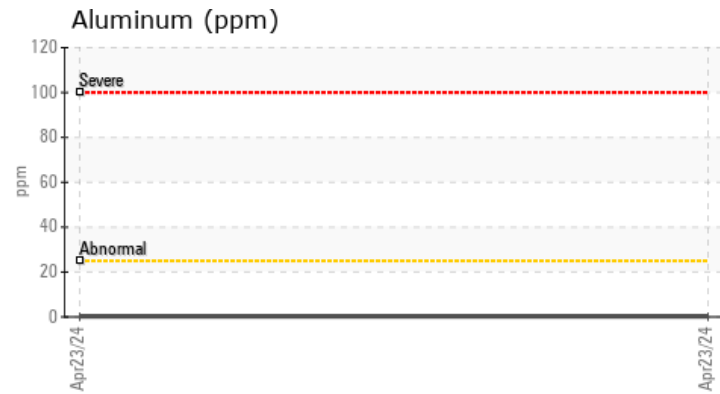
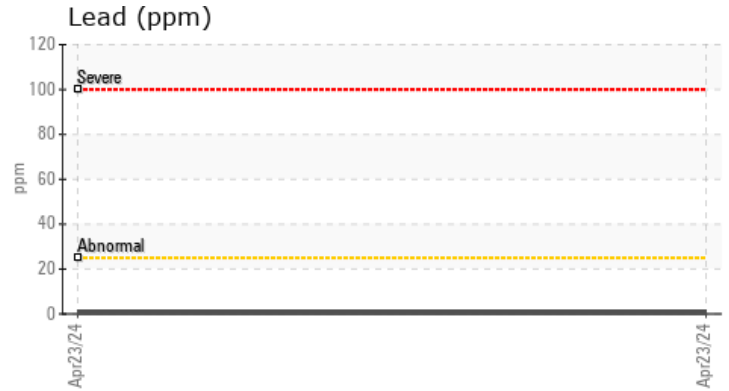
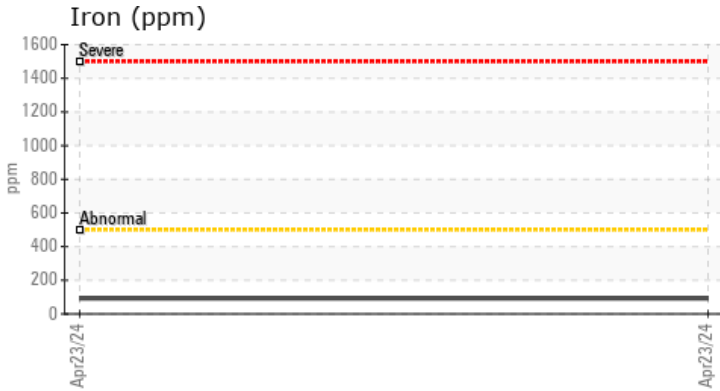
**Depot:** VOLVO8885  
**Unique No:** 11030513  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS



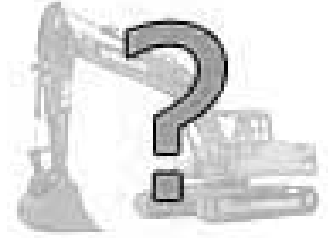


# CONSTRUCTION EQUIPMENT

SPM702435 AMG SENNEBOGEN 830ME 830.0.2822 - REAR LEFT FINAL DRIVE



**Sample No:** VCP446179  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM702435 AMG



## SAMPLE INFORMATION

Sample Number	VCP446179	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	9464	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

**ALTA EQUIPMENT CO - ORLAND PARK**  
5000 INDUSTRIAL HWY  
GARY, IN  
US 46406  
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F:



## OIL CONDITION

Visc @ 40°C	cSt	● 67.1	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 8	---	---	---
Sodium	ppm	■ 14	---	---	---
Potassium	ppm	■ <1	---	---	---



## WEAR METALS

Iron	ppm	■ 55	---	---	---
Copper	ppm	■ 9	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	● 2535	---	---	---
Magnesium	ppm	■ 9	---	---	---
Zinc	ppm	● 1092	---	---	---
Phosphorus	ppm	■ 969	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 104	---	---	---

## Diagnosis

The oil 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

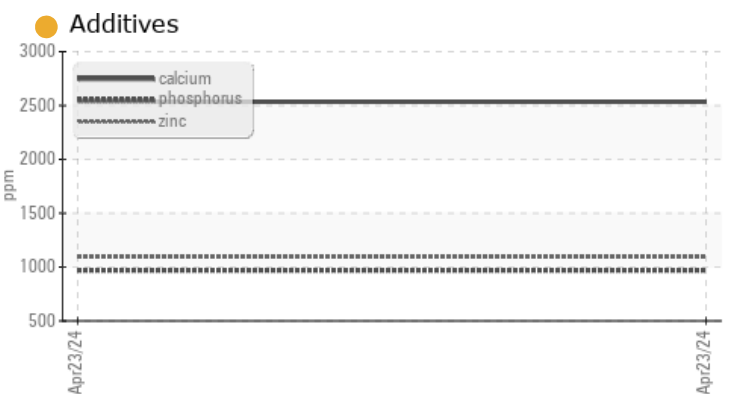
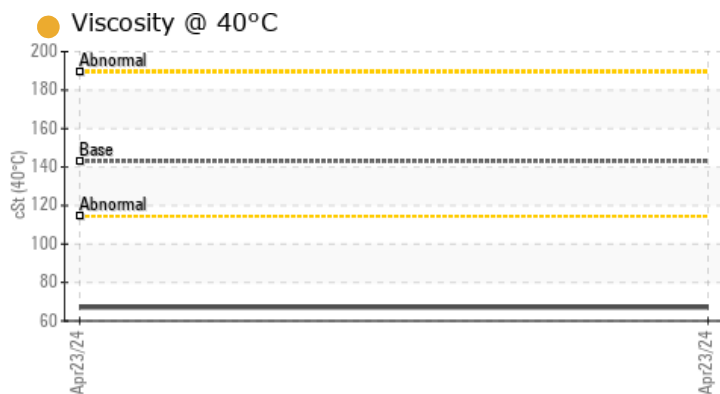
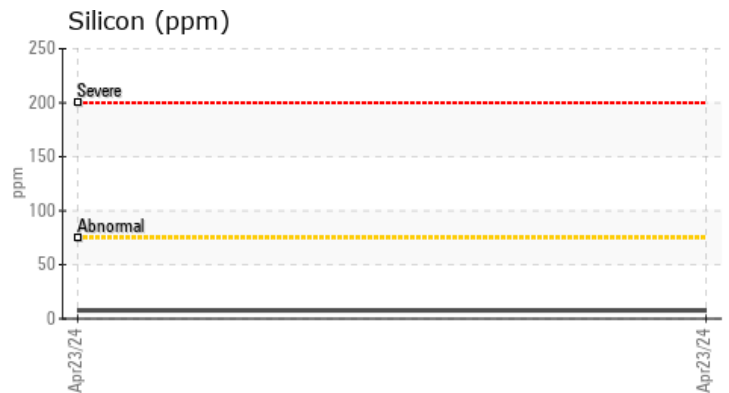
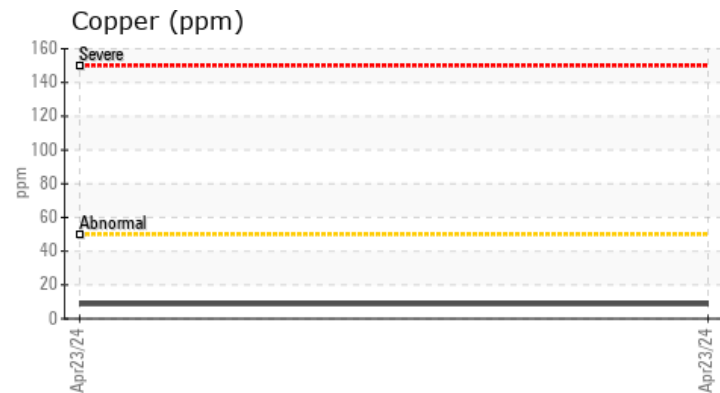
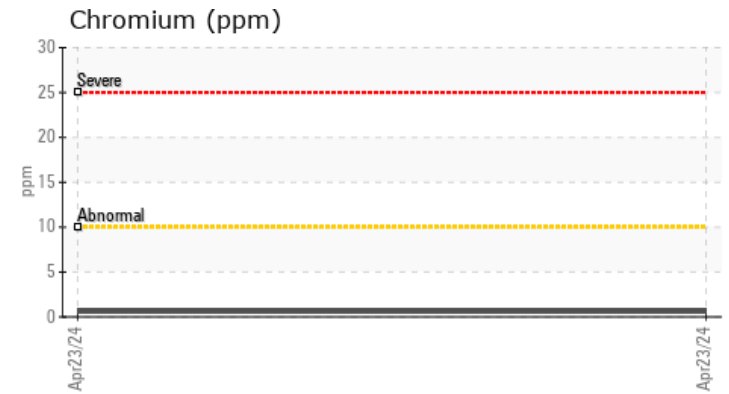
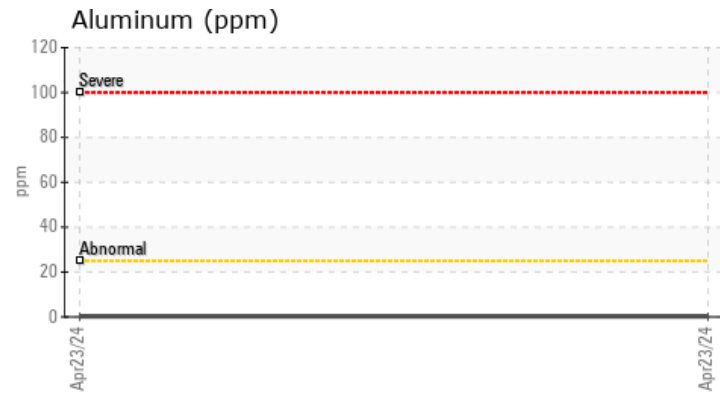
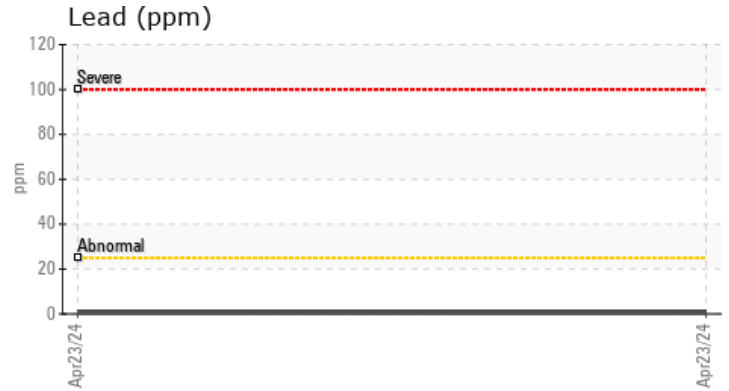
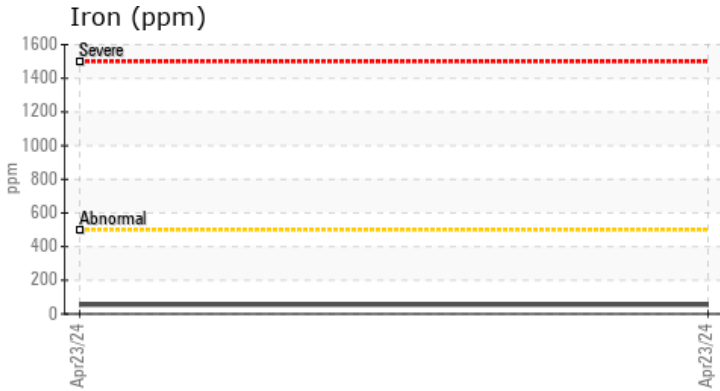
**Depot:** VOLVO8885  
**Unique No:** 11030514  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS







# CONSTRUCTION EQUIPMENT

SPM702435 SENNEBOGEN 830ME 830.0.2822 - REAR AXLE



**Sample No:** VCP446178  
**Oil Type:** TDTO FLUID SAE 50  
**Job No:** SPM702435



## SAMPLE INFORMATION

Sample Number	VCP446178	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	9464	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

**ALTA EQUIPMENT CO - ORLAND PARK**  
5000 INDUSTRIAL HWY  
GARY, IN  
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F:



## OIL CONDITION

Visc @ 40°C	cSt	█ 66.9	---	---	---
-------------	-----	--------	-----	-----	-----



## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 16	---	---	---
Potassium	ppm	█ 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	█ 65	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 2	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 2778	---	---	---
Magnesium	ppm	█ 8	---	---	---
Zinc	ppm	█ 1144	---	---	---
Phosphorus	ppm	█ 1020	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 90	---	---	---

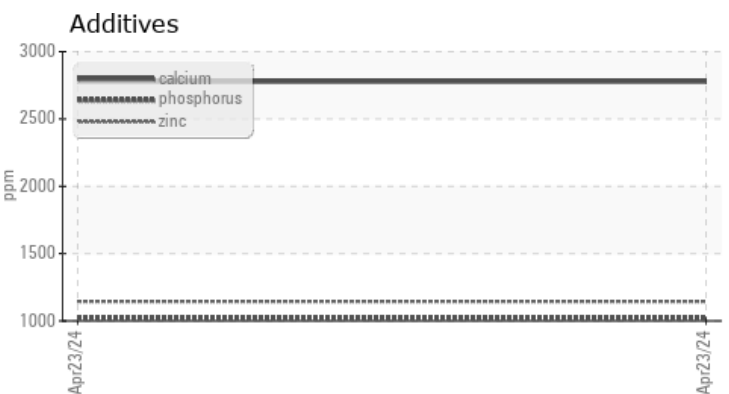
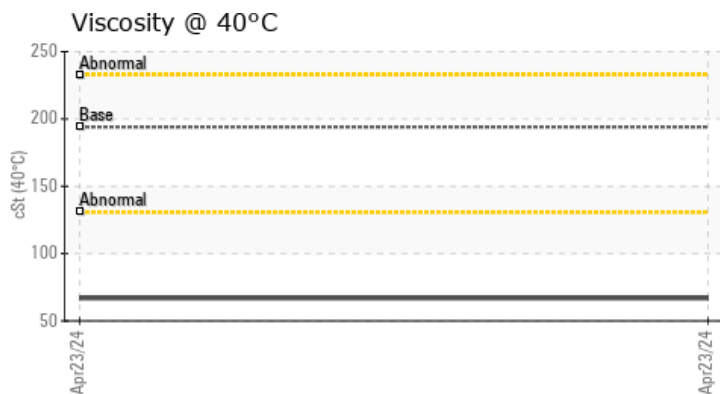
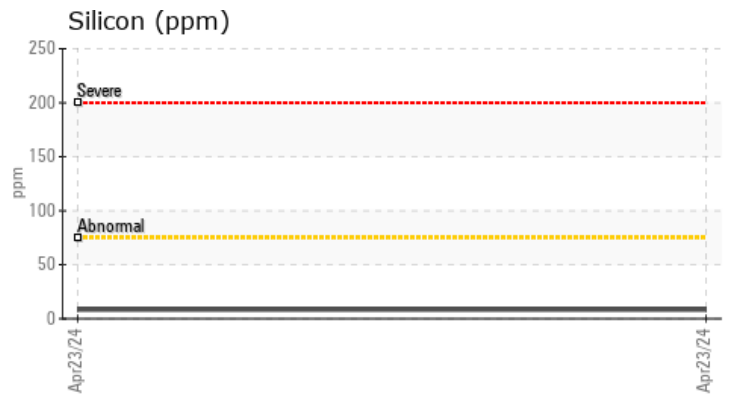
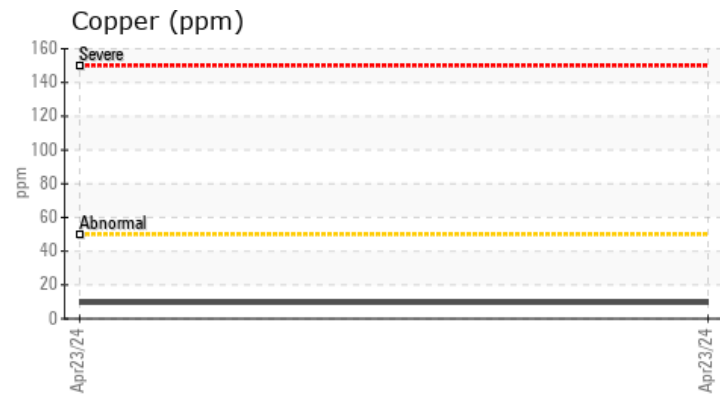
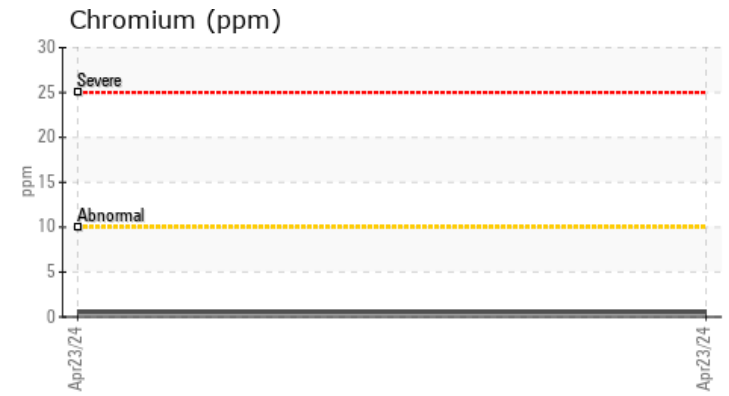
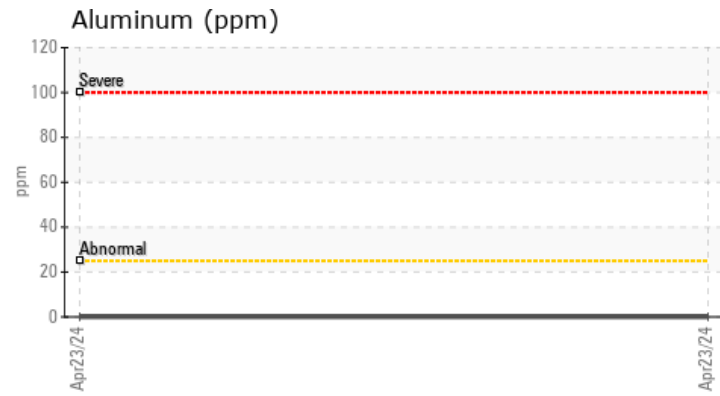
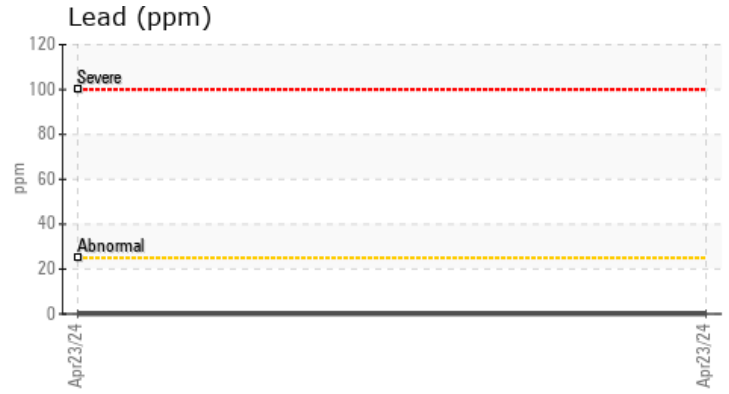
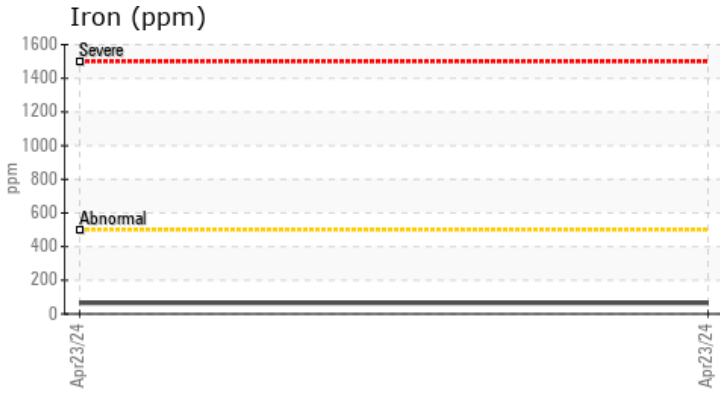
**Depot:** VOLVO8885  
**Unique No:** 11030493  
**Signed:** Sean Felton  
**Report Date:** 16 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS



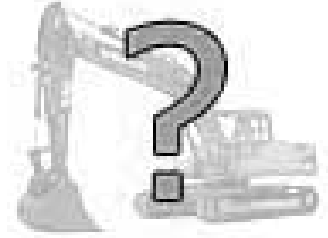


# CONSTRUCTION EQUIPMENT

SPM702435 AMG SENNEBOGEN 830ME 830.0.2822 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP446177  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SPM702435 AMG



## SAMPLE INFORMATION

Sample Number	VCP446177	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	9464	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

**ALTA EQUIPMENT CO - ORLAND PARK**  
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GARY, IN  
US 46406  
Contact: DAVE ENG  
DAVE.ENG@ALTG.COM  
T: (312)350-2560  
F:



## OIL CONDITION

Visc @ 40°C	cSt	● 66.9	---	---	---
-------------	-----	--------	-----	-----	-----



## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 7	---	---	---
Sodium	ppm	■ 16	---	---	---
Potassium	ppm	■ 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 oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.



## WEAR METALS

Iron	ppm	■ 59	---	---	---
Copper	ppm	■ 9	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	● 2771	---	---	---
Magnesium	ppm	■ 8	---	---	---
Zinc	ppm	● 1126	---	---	---
Phosphorus	ppm	■ 989	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 88	---	---	---

**Depot:** VOLVO8885  
**Unique No:** 11030483  
**Signed:** Sean Felton  
**Report Date:** 16 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

