

SWA474120-1 SENNEBOGEN 835 835.0.2487 - COOLANT

Sample No: VCP434753

Oil Type: VOLVO COOLANT VCS (YELLOW)

**Job No:** SWA474120-1

SAMPLE II	NFORMATION			
Sample Number	-	VCP434753	 	
Sample Date		05 Feb 2024	 	
Machine Hours		11725	 	
Sample Status		NORMAL	 	
COOLANT	CONDITION			
рН	Scale 0-14	■ 8.08	 	
Reserve Alkalinity	Scale 0-20		 	
Nitrites	ppm	■ NT	 	
Percentage Glycol	%	<b>56.5</b>	 	
Freezing Point	°C	<b>-50</b>	 	
CONTAMIN	NATION			
Coolant Appearance		normal	 	
Coolant Color		Yllow	 	



#### **ALTA EQUIPMENT COMPANY**

1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705
Contact: JUSTIN PERRY
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F:

### Diagnosis

No corrective action is recommended at this time. The fluid is suitable for further service. There is no indication of any contamination in the coolant. Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

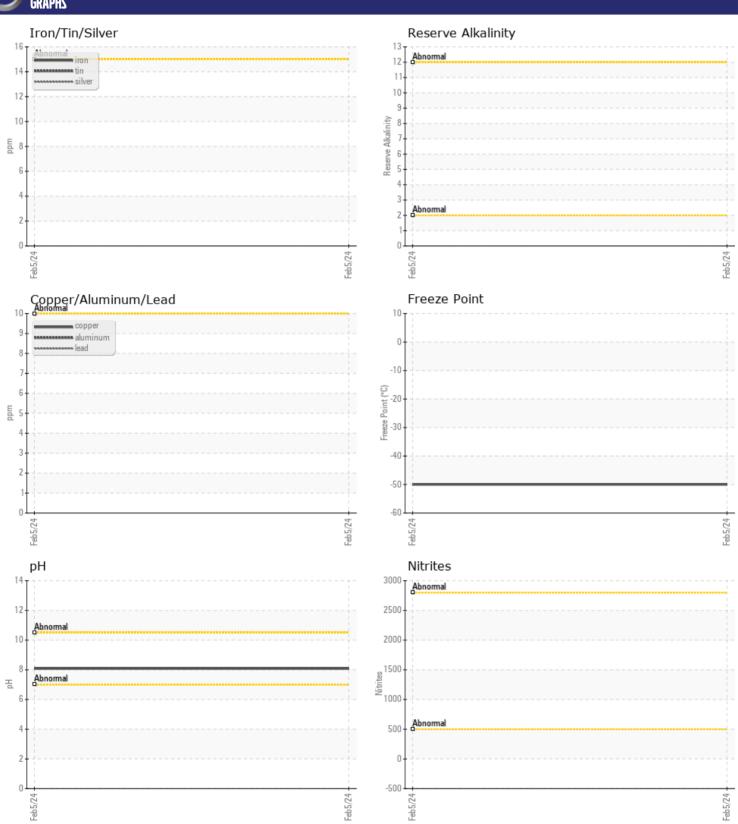
Depot:VOLVO5054Unique No:10888823Signed:Jonathan HesterReport Date:26 Feb 2024







### **GRAPHS**





CONSTRUCTION EQUIPMENT
SWA474120-10 ALTER SENNEBOGEN 835 835.0.2487 - DIESEL E

**Sample No:** VCP432719

Potassium

ppm

**6** 

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: SWA474120-10 ALTER

SAMPLE	INFORMATION			
Sample Number	•	VCP432719	VCP363689	 
Sample Date		05 Feb 2024	25 Oct 2022	 
Machine Hours		11725	8905	 
Oil Hours		500	500	 
Oil Changed		Changed	N/A	 
Sample Status		NORMAL	NORMAL	 
OIL CONI	DITION			
Visc @ 100°C	cSt	<b>12.9</b>	■13.0	 
Base Number (BN	I) mg KOH/g	<b>6.5</b>	■8.1	 
Oxidation (PA)	%	108	108	 
LUNTAN	IINATION			
Water	%	NEG	NEG	 
Soot %	%	<b>0.2</b>	□ 0.3	 
Nitration (PA)	%	93	106	 
Sulfation (PA)	%	68	71	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	<b>6</b>	<b>6</b>	 
Sodium	ppm	<b>■</b> 0	1	 

WEAR	METALS				
Iron		<b>1</b> 9	<b>□</b> 18	<u> </u>	
Iron	ppm	<b>19</b>	<u> </u>		
Copper	ppm	■2	_2		
Lead	ppm	<b>0</b>	< 1		
Tin	ppm	■0	<b>-</b> <1		
Aluminum	ppm	<b>2</b>	<b>5</b>		
Chromium	ppm	<b>■&lt;1</b>	<b>-</b> <1		
Molybdenum	ppm	■88	<b>5</b> 1		
Nickel	ppm	■0	<b>0</b>		
Titanium	ppm	0	<1		
Silver	ppm	■0	<b>2</b>		
Manganese	ppm	<b>■</b> 0	< 1		
Vanadium	ppm	0	<1		

**1**9

ADDITI	VES			
Calcium	ppm	<b>1505</b>	<b>1658</b>	 
Magnesium	ppm	<b>1235</b>	<b>587</b>	 
Zinc	ppm	<b>1701</b>	<b>1230</b>	 
Phosphorus	ppm	<b>1262</b>	■987	 
Barium	ppm	<b>-&lt;1</b>	<b>0</b>	 
Boron	ppm	<b>■</b> 3	<b>2</b> 4	 



#### **ALTA EQUIPMENT COMPANY**

1035 WYLIE DRIVE BLOOMINGTON, IL US 61705 Contact: JUSTIN PERRY justin.perry@altg.com T: (309)533-9285

### Diagnosis

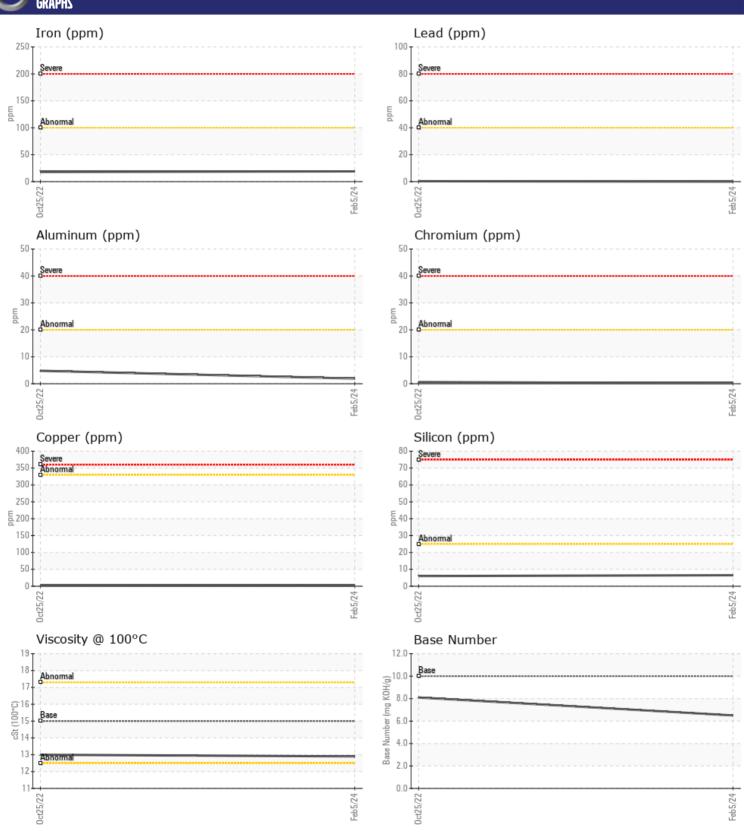
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10888096 Signed: Sean Felton Report Date: 22 Feb 2024











SWA474120-1 SENNEBOGEN 835 835.0.2487 - TRANSMISSION

Sample No: VCP431476

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

**Job No:** SWA474120-1

VOLVO				
	INFORMATIO	N		
Sample Number	_	VCP431476	VCP396379	 
Sample Date		05 Feb 2024	09 Oct 2023	 
Machine Hours		11725	11163	 
Oil Hours		500	2000	 
Oil Changed		Not Changd	Changed	 
Sample Status		NORMAL	NORMAL	 
OIL CON	DITION			
Visc @ 40°C	cSt	83.4	85.7	 
CONTAN	MINATION			

CONTAI	MINATION				
Water	%	NEG	NEG	 	
Silicon	ppm	<b>7</b>	<b>6</b>	 	
Sodium	ppm	<b>0</b>	■3	 	
Potassium	ppm	<b>2</b>	<b>0</b>	 	

WEAR	METALS			
Iron	ppm	■21	<b>1</b> 1	 
Copper	ppm	■32	<b>2</b> 9	 
Lead	ppm	<b>■</b> 0	□0	 
Tin	ppm	<b>■</b> 0	<b></b> <1	 
Aluminum	ppm	<b>2</b>	< 1	 
Chromium	ppm	<b>■&lt;1</b>	■0	 
Molybdenum	ppm	<b>44</b>	■38	 
Nickel	ppm	0	0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>2</b>	<b>■</b> 3	 
Vanadium	ppm	0	0	 

ADDIT	IVES			
Calcium	ppm	<b>1307</b>	<b>1356</b>	 
Magnesium	ppm	<b>■</b> 522	<b>473</b>	 
Zinc	ppm	<b>953</b>	■893	 
Phosphorus	ppm	■840	■874	 
Barium	ppm	<b>■ &lt;1</b>	<1	 
Boron	ppm	109	105	 



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#### Diagnosis

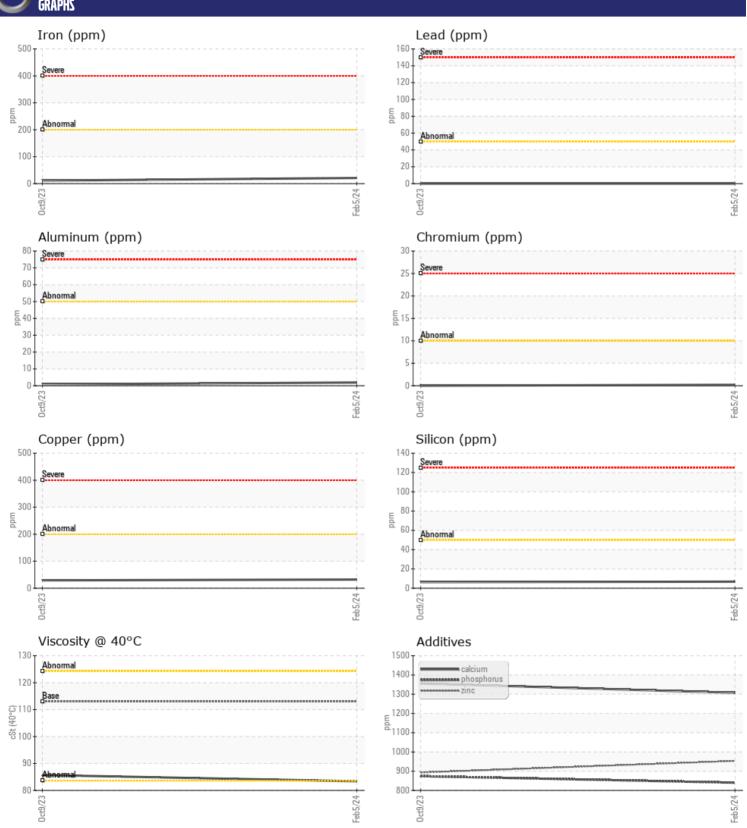
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot:VOLVO5054Unique No:10888787Signed:Sean FeltonReport Date:23 Feb 2024











SWA474120-10 ALTER SENNEBOGEN 835 835.0.2487 - HYDRAU

**Sample No:** VCP434189

Oil Type: **VOLVO SUPER HYDRAULIC OIL 46** 

Job No: SWA474120-10 ALTER

ppm

ppm

**1** 

**-**<1

Sodium

Potassium

SAMPLE II	NFORMATION			
Sample Number		VCP434189	 	
Sample Date		05 Feb 2024	 	
Machine Hours		11725	 	
Oil Hours		500	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CONDI	TION			
_				
Visc @ 40°C	cSt	<b>43.7</b>	 	
Acid Number (AN)	mg KOH/g	■ 0.38	 	
CONTAMIN	IATION			
	_	. NEG		
Water	%	NEG	 	
Particles >4µm		<b>18339</b>	 	
Particles >6µm		<u>4428</u>	 	
Particles > 14µm		<b>△</b> 326	 	
ISO 4406:1999 (c)		21/19/16	 	
Silicon	ppm	<b>■&lt;1</b>	 	

WEAR	METALS			
Iron	ppm	<b>■</b> <1	 	
Copper	ppm	<b>0</b>	 	
Lead	ppm	<b>0</b>	 	
Tin	ppm	<b></b>	 	
Aluminum	ppm	<b>-&lt; 1</b>	 	
Chromium	ppm	<b>■</b> <1	 	
Molybdenum	ppm	<b>0</b>	 	
Nickel	ppm	<b>■</b> <1	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<b>0</b>	 	
Vanadium	ppm	0	 	

ADDIT	IVES			
Calcium	ppm	<b>131</b>	 	
Magnesium	ppm	<b>1</b>	 	
Zinc	ppm	<b>464</b>	 	
Phosphorus	ppm	■360	 	
Barium	ppm	<b>0</b>	 	
Boron	ppm	<b>■</b> 0	 	



#### **ALTA EQUIPMENT COMPANY**

1035 WYLIE DRIVE BLOOMINGTON, IL US 61705 Contact: JUSTIN PERRY justin.perry@altg.com T: (309)533-9285

#### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

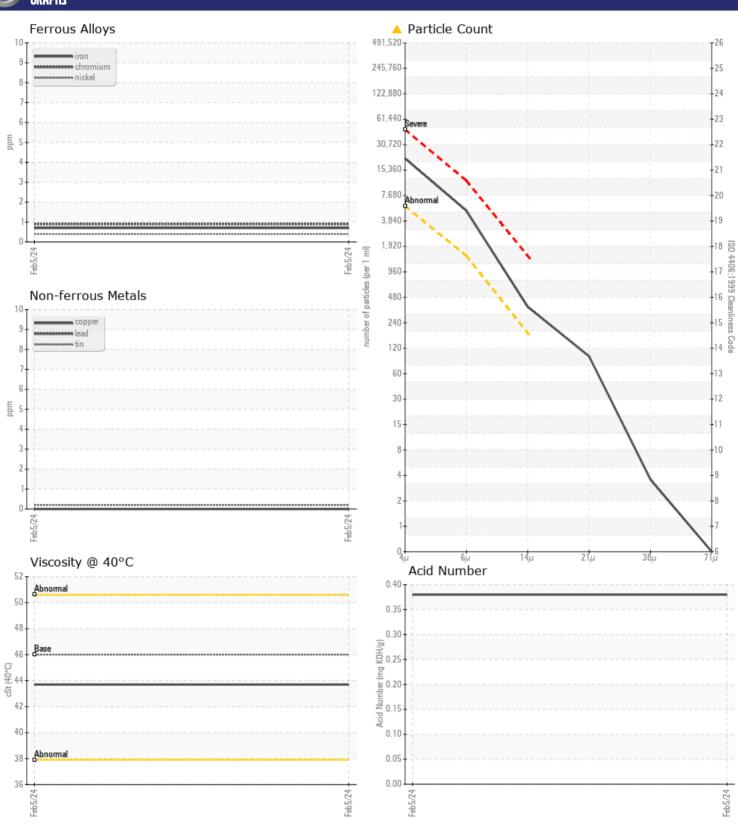
Depot: VOLVO5054 **Unique No:** 10888320 Signed: Wes Davis Report Date: 22 Feb 2024







#### GRAPH





CONSTRUCTION EQUIPMENT
SWA474120-1 SENNEBOGEN 835 835.0.2487 - LEFT SWING DRI

Sample No: VCP431477

Oil Type: SHELL OMALA S4 GX 220

Job No: SWA474120-1

SAMPLE	INFORMATION			
Sample Number	ē	VCP431477	VCP396377	 
Sample Date		05 Feb 2024	09 Oct 2023	 
Machine Hours		11725	11163	 
Oil Hours		500	2000	 ***
Oil Changed		Not Changd	Changed	 
Sample Status		NORMAL	NORMAL	 
OIL CONE	DITION			
Visc @ 40°C	cSt	■235	229	 
CONTAM	INATION			
Water	%	NEG	NEG	 
Silicon	ppm	<b>6</b>	<b>1</b> 0	 
Sodium	ppm	<b>0</b>	<b>0</b>	 
Potassium	ppm	<b>1</b>	<b>0</b>	 

WEAR I	METALS			
Iron	ppm	■324	■362	 
Copper	ppm	<b>62</b>	<b>176</b>	 
Lead	ppm	<b>0</b>	<b>0</b>	 
Tin	ppm	<b>1</b>	<b>2</b>	 
Aluminum	ppm	<b>2</b>	<b>0</b>	 
Chromium	ppm	<b>■</b> 3	<b>4</b>	 
Molybdenum	ppm	<b>0</b>	<b>0</b>	 
Nickel	ppm	<b>■</b> 0	<b>2</b>	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>2</b>	<b>3</b>	 
Vanadium	ppm	0	0	 

ADDITI	VES			
Calcium	ppm	<b></b>	■3	 
Magnesium	ppm	■0	<b>3</b>	 
Zinc	ppm	<b>■31</b>	<b>7</b> 7	 
Phosphorus	ppm	<b>400</b>	<b>400</b>	 
Barium	ppm	<b>0</b>	< 1	 
Boron	ppm	■23	■18	 



#### **ALTA EQUIPMENT COMPANY**

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### Diagnosis

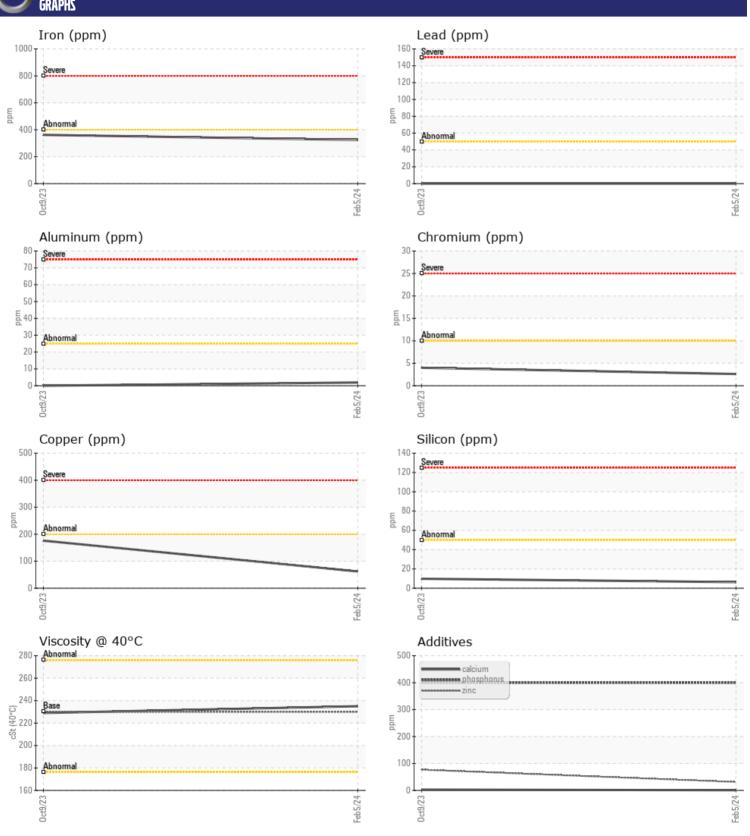
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10888736 Signed: Sean Felton Report Date: 23 Feb 2024











CONSTRUCTION EQUIPMENT
SWA474120-10 SENNEBOGEN 835 835.0.2487 - RIGHT SWING D

**Sample No:** VCP434188

Oil Type: SHELL OMALA S4 GX 220

Job No: SWA474120-10

SAMPLE	INFORMATION			
Sample Number	-	VCP434188	VCP396381	 
Sample Date		05 Feb 2024	09 Oct 2023	 
Machine Hours		11725	11163	 
Oil Hours		500	2000	 
Oil Changed		Not Changd	Changed	 
Sample Status		ABNORMAL	ABNORMAL	 
OIL CON	DITION			
Visc @ 40°C	cSt	<b>231</b>	<u>225</u>	 
VISC @ 40 C	CSL	<b>231</b>		 
VOLVO				
CONTAN	MINATION			
Water	%	NEG	<b>△</b> 0.142	 
Silicon	ppm	<b>6</b>	9	 
Sodium	ppm	<b>0</b>	<b>0</b>	 
Potassium	ppm	<b>1</b>	■0	 
WEAR N	AETALS			
_			•	
Iron	ppm	<b>▲</b> 582	585	 
Copper	ppm	<b>108</b>	<u>^</u> 259	 
Lead	ppm	■0	0	 
Tin	ppm	<b>5</b>	<u> </u>	 
Aluminum	ppm	<b>2</b>	<b>0</b>	 
Chromium	ppm	<b>6</b>	<b>7</b>	 
Molybdenum	ppm	<b>0</b>	0	 
Nickel	ppm	■ 0	<b>1</b>	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>4</b>	<b>5</b>	 
Vanadium	ppm	0	0	 
VOLVO				
ADDITIV	<b>IES</b>			
Calcium	ppm	<b>2</b>	□3	 
Magnesium	ppm	<b>■&lt;1</b>	■3	 
Zinc	ppm	<b>23</b>	■88	 
Phosphorus	ppm	<b>417</b>	<b>403</b>	 
Barium	ppm	<b>0</b>	<u> </u>	 
Boron	ppm	<b>25</b>	<b>1</b> 7	 



#### **ALTA EQUIPMENT COMPANY**

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### Diagnosis

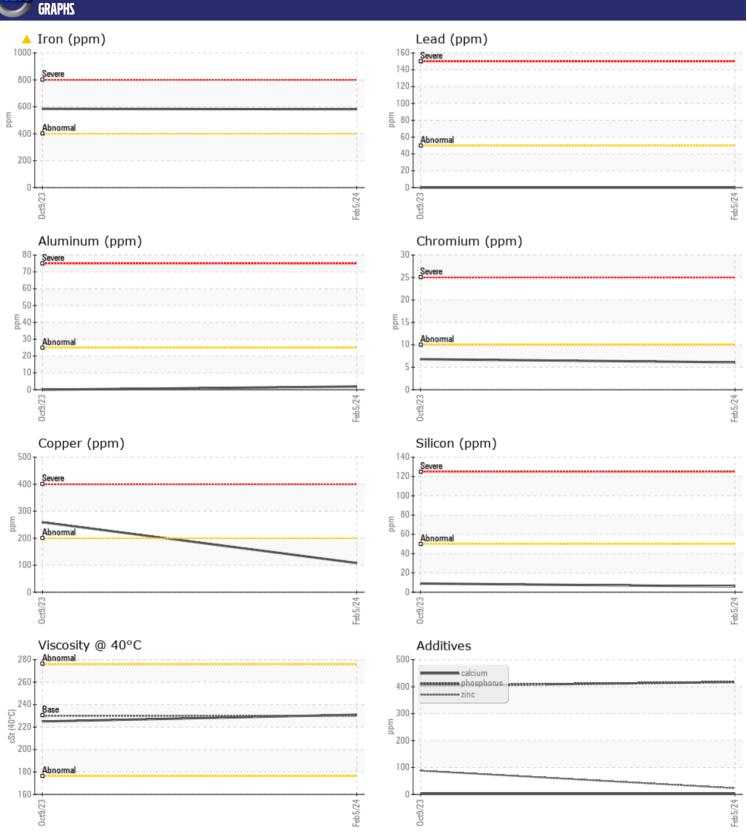
No corrective action is recommended at this time. Resample at the next service interval to monitor.Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10888735 Signed: Sean Felton Report Date: 23 Feb 2024











SWA474120-1 SENNEBOGEN 835 835.0.2487 - FRONT LEFT FINA

Sample No: VCP431478

Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

**0** 

**1** 

Report Id: VOLVO5054 [WUSCAR] 06095885 (Generated: 02/22/2024 10:32:58) Rev: 1

ppm

ppm

**Job No:** SWA474120-1

Sodium

Potassium

CVMDIE	INFORMATION			
	INFURMATION			 <u> </u>
Sample Number		VCP431478	VCP415318	 
Sample Date		05 Feb 2024	09 Oct 2023	 
Machine Hours		11725	11163	 
Oil Hours		500	2000	 
Oil Changed		Not Changd	Changed	 
Sample Status		NORMAL	ABNORMAL	 
OIL CONI	DITION			
Visc @ 40°C	cSt	<b>143</b>	□ 144	 
	IINATION			
Water	%	NEG	NEG	 
Silicon	ppm	<b>■3</b>	<b>4</b>	 

WEAR I	METALS			
_	AIT I VITA			
Iron	ppm	■ 55	■49	 
Copper	ppm	<b>6</b>	<b>5</b>	 
Lead	ppm	<b>0</b>	<b>0</b>	 
Tin	ppm	<b>■</b> 0	<b>0</b>	 
Aluminum	ppm	<b>2</b>	□ 0	 
Chromium	ppm	<b>■</b> <1	<b>0</b>	 
Molybdenum	ppm	<b>0</b>	<b>0</b>	 
Nickel	ppm	<b>■</b> 0	<b>0</b>	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>■ &lt;1</b>	<b>-</b> <1	 
Vanadium	ppm	0	0	 

< 1</p>

ADDITI	VES			
Calcium	ppm	<b>28</b>	■38	 
Magnesium	ppm	<b>17</b>	<b>2</b> 7	 
Zinc	ppm	■32	<b>4</b> 0	 
Phosphorus	ppm	1649	1828	 
Barium	ppm	<b>□</b> <1	<b>2</b>	 
Boron	ppm	<b>177</b>	<b>137</b>	 



#### **ALTA EQUIPMENT COMPANY**

1035 WYLIE DRIVE
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F:

### 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:
 10888738

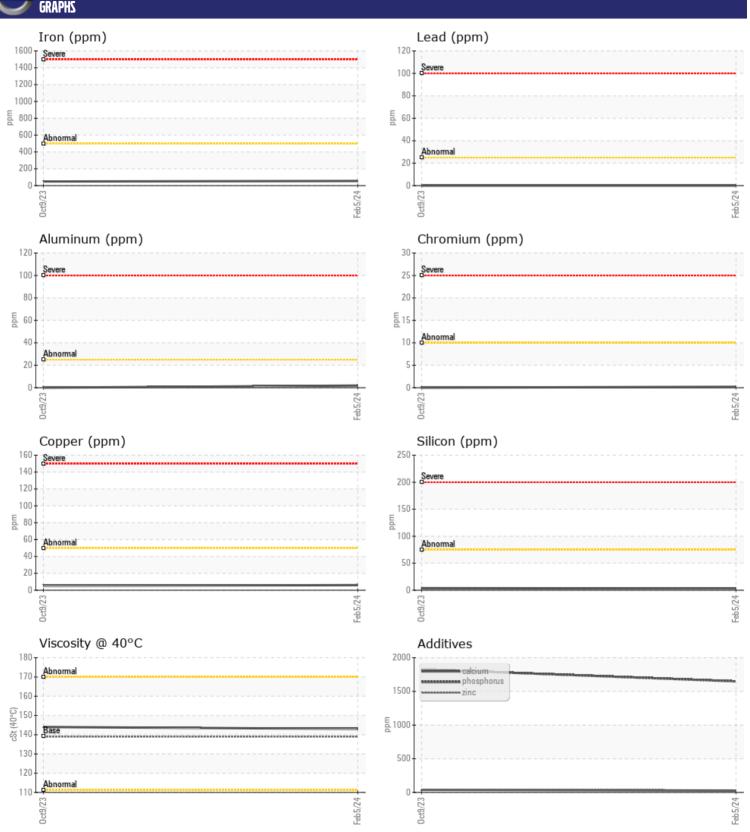
 Signed:
 Wes Davis

 Report Date:
 22 Feb 2024











# CONSTRUCTION EQUIPMENT SWA474120-1 SENNEBOGEN 835 835.0.2487 - FRONT AXLE

**Sample No:** VCP431482

Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

**2** 

**0** 

**0** 

Job No: SWA474120-1

ppm

ppm

ppm

ppm

Silicon

Sodium

Manganese

Vanadium

VOLVO				
	E INFORMATION			
Sample Number	r -	VCP431482	VCP396383	 
Sample Date		05 Feb 2024	09 Oct 2023	 
Machine Hours		11725	11163	 
Oil Hours		500	2000	 
Oil Changed		Not Changd	Changed	 
Sample Status		NORMAL	NORMAL	 
OIL CO	NDITION			
Visc @ 40°C	cSt	<b>145</b>	□146	 
CONTA	MINATION			
Water	%	NEG	NEG	 

	P P			
Potassium	ppm	<b>1</b>	<b>0</b>	 
WEAR	METALS			
Iron	ppm	<b>2</b>	< 1	 
Copper	ppm	<b>■4</b>	<b>4</b>	 
Lead	ppm	<b>0</b>	□0	 
Tin	ppm	■0	<b>0</b>	 
Aluminum	ppm	<b>2</b>	□0	 
Chromium	ppm	<b>■&lt;1</b>	<b>0</b>	 
Molybdenum	ppm	<b>0</b>	□0	 
Nickel	ppm	■0	<b>0</b>	 
Titanium	ppm	0	0	 
Silver	mag	0	0	 

0

ADDITIV	Zav			
Calcium	ppm	<b>6</b>	<b>7</b>	 
Magnesium	ppm	<b>■</b> 2	<b>3</b>	 
Zinc	ppm	■8	<b>9</b>	 
Phosphorus	ppm	■1826	<b>1996</b>	 
Barium	ppm	<b>■&lt;1</b>	< 1	 
Boron	ppm	<b>193</b>	<b>1</b> 49	 

**0** 



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### Diagnosis

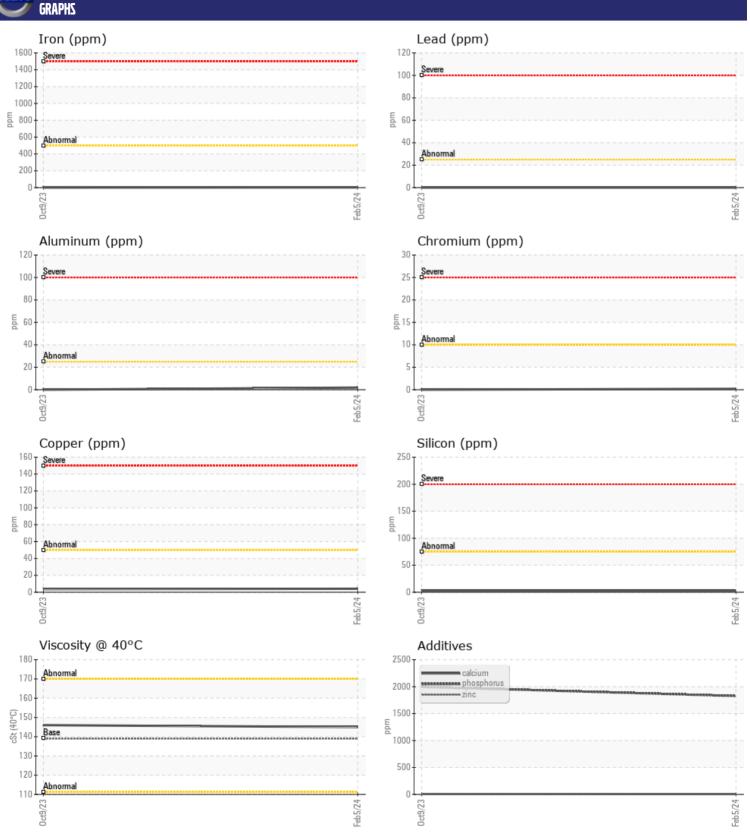
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10888742 Signed: Sean Felton Report Date: 23 Feb 2024











SWA474120-1 SENNEBOGEN 835 835.0.2487 - FRONT RIGHT FIN

Sample No: VCP434187

Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

**Job No:** SWA474120-1

CAMDIE	INFORMATIO	M			
	INI UNITA I IU		VCD20C202	<u> </u>	<u>.</u>
Sample Number		VCP434187	VCP396382		
Sample Date		05 Feb 2024	09 Oct 2023		
Machine Hours		11725	11163		
Oil Hours		500	2000		
Oil Changed		Not Changd	Changed		
Sample Status		NORMAL	NORMAL		
OIL COND	ITION				
Visc @ 40°C	cSt	<b>142</b>	□148		
CONTAMI	INATION				
Water	%	NEG	NEG		
Silicon	ppm	<b>■</b> 5	■3		
Sodium	ppm	<b>■ 0</b>	□0		
Potassium	ppm	<b>■</b> <1	□0		

VOLVO	METALC			
WEAR	METALS			
Iron	ppm	<b>63</b>	<b>1</b> 9	 
Copper	ppm	<b>■</b> 6	<b>2</b> 5	 
Lead	ppm	<b>0</b>	<b>0</b>	 
Tin	ppm	■0	<b>0</b>	 
Aluminum	ppm	<b>2</b>	<b>0</b>	 
Chromium	ppm	<b>■&lt;1</b>	<b>0</b>	 
Molybdenum	ppm	<b>0</b>	<b>0</b>	 
Nickel	ppm	■0	<b>0</b>	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b></b>	<b>-</b> <1	 
Vanadium	ppm	0	0	 

ADDITI	VES			
Calcium	ppm	<b>20</b>	□18	 
Magnesium	ppm	<b>16</b>	9	 
Zinc	ppm	<b>29</b>	<b>2</b> 6	 
Phosphorus	ppm	1685	1889	 
Barium	ppm	<b>1</b>	<b>-</b> <1	 
Boron	ppm	<b>186</b>	<b>110</b>	 



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F:

### 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:
 10888737

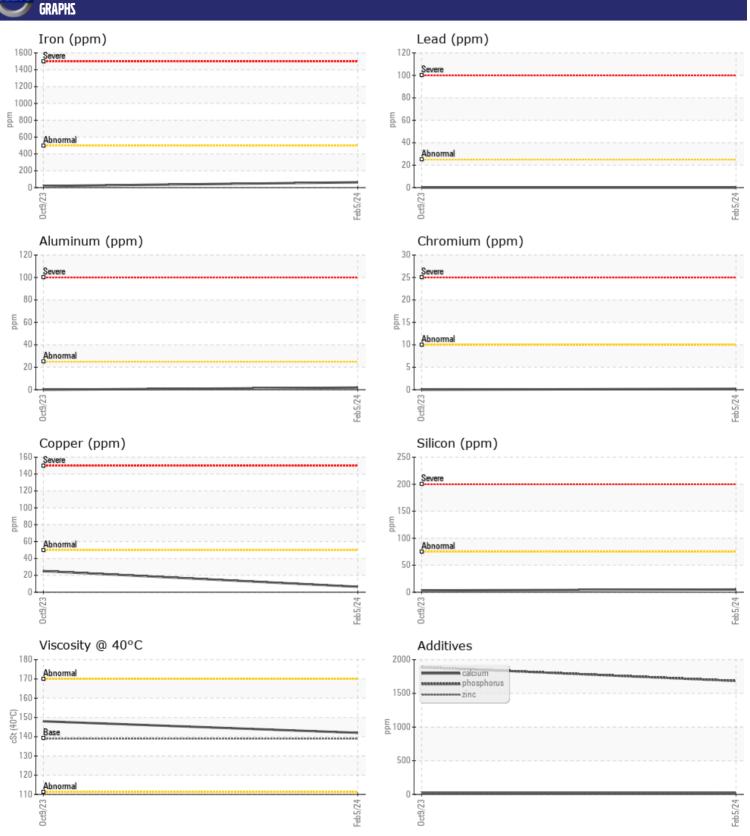
 Signed:
 Wes Davis

 Report Date:
 22 Feb 2024











SWA474720-1 SENNEBOGEN 835 835.0.2487 - REAR LEFT FINAL

Sample No: VCP431479

Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

**Job No:** SWA474720-1

VOLVO							
	INFORMATIO	N					
Sample Number	*	VCP431479	VCP396376				
Sample Date		05 Feb 2024	09 Oct 2023				
Machine Hours		11725	11163				
Oil Hours		500	2000				
Oil Changed		Not Changd	Changed				
Sample Status		NORMAL	NORMAL				
OIL COND	DITION						
Visc @ 40°C	cSt	■148	<b>148</b>				
CONTAMINATION							
Water	%	NEG	NEG				
Silicon	ppm	<b>4</b>	<b>3</b>				
Sodium	ppm	<b>■</b> 0	<b>0</b>				
Potassium	ppm	<b>□</b> <1	<b>0</b>				

VOLVO				
WEAR	METALS			
Iron	ppm	■31	■20	 
Copper	ppm	■31	□ 24	 
Lead	ppm	<b>0</b>	<b>0</b>	 
Tin	ppm	<b>■</b> 0	0	 
Aluminum	ppm	<b>2</b>	<b>0</b>	 
Chromium	ppm	<b>■&lt;1</b>	0	 
Molybdenum	ppm	<b>0</b>	<b>0</b>	 
Nickel	ppm	<b>■</b> 0	0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>0</b>	< 1	 
Vanadium	ppm	0	0	 

ADDITI	IVES			
Calcium	ppm	<b>16</b>	□18	 
Magnesium	ppm	■8	<b>1</b> 0	 
Zinc	ppm	<b>29</b>	<b>2</b> 6	 
Phosphorus	ppm	1644	1871	 
Barium	ppm	<b>□</b> <1	<b>-</b> <1	 
Boron	ppm	<b>147</b>	■106	 



#### **ALTA EQUIPMENT COMPANY**

1035 WYLIE DRIVE
BLOOMINGTON, IL
US 61705
Contact: JUSTIN PERRY
justin.perry@altg.com
T: (309)533-9285
F:

### 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:
 10888741

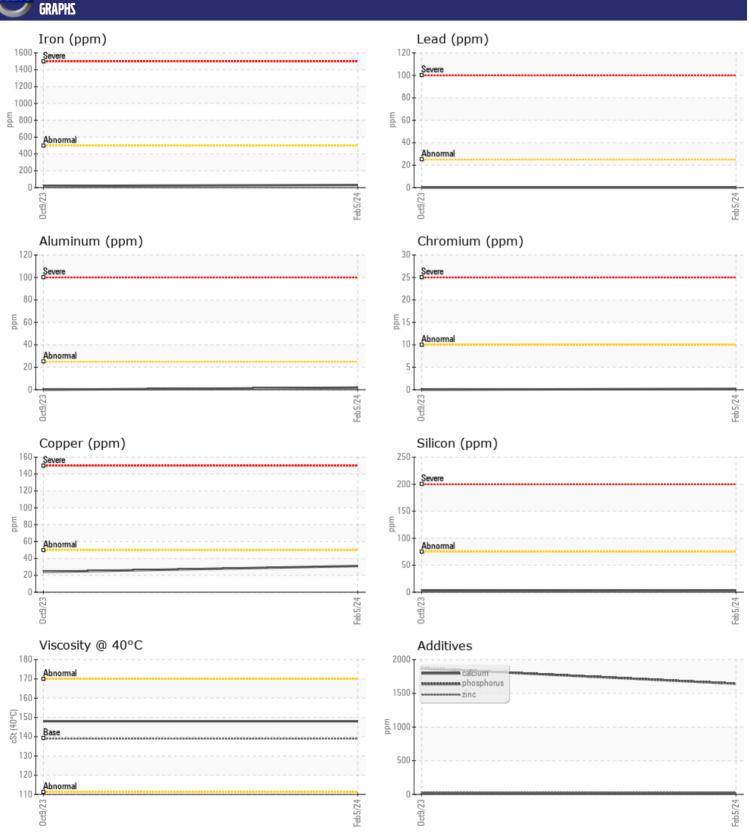
 Signed:
 Wes Davis

 Report Date:
 22 Feb 2024











SWA474120-1 SENNEBOGEN 835 835.0.2487 - REAR AXLE

Sample No: VCP431480

Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

**0** 

**1** 

**Job No:** SWA474120-1

ppm

ppm

Sodium

Potassium

VOLVO				
	NFORMATIO	DN		
Sample Number	-	VCP431480	VCP396384	 
Sample Date		05 Feb 2024	09 Oct 2023	 
Machine Hours		11725	11163	 
Oil Hours		500	2000	 
Oil Changed		Not Changd	Changed	 
Sample Status		NORMAL	NORMAL	 
OIL CONDI	TION			
Visc @ 40°C	cSt	<b>148</b>	<b>149</b>	 
VOLVO				
CONTAMI	NATION			
Water	%	NEG	NEG	 
Silicon	ppm	<b>■</b> 3	<b>4</b>	 

WEAD	METALS			
WEAR	AC I WE?			
Iron	ppm	<b>25</b>	<b>2</b> 1	 
Copper	ppm	■33	■28	 
Lead	ppm	<b>0</b>	<b>0</b>	 
Tin	ppm	■0	<b>0</b>	 
Aluminum	ppm	<b>2</b>	<b>0</b>	 
Chromium	ppm	<b>■&lt;1</b>	<b>0</b>	 
Molybdenum	ppm	<b>0</b>	<b>0</b>	 
Nickel	ppm	■0	0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>0</b>	< 1	 
Vanadium	ppm	0	0	 

0

ADDITI	VES			
Calcium	ppm	<b>19</b>	<b>2</b> 1	 
Magnesium	ppm	<b>■8</b>	<b>1</b> 1	 
Zinc	ppm	■30	■31	 
Phosphorus	ppm	1694	1991	 
Barium	ppm	<b>■ &lt;1</b>	<b>-</b> <1	 
Boron	ppm	<b>146</b>	<b>120</b>	 



#### **ALTA EQUIPMENT COMPANY**

1035 WYLIE DRIVE BLOOMINGTON, IL US 61705 Contact: JUSTIN PERRY justin.perry@altg.com T: (309)533-9285 F:

### 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:
 10888740

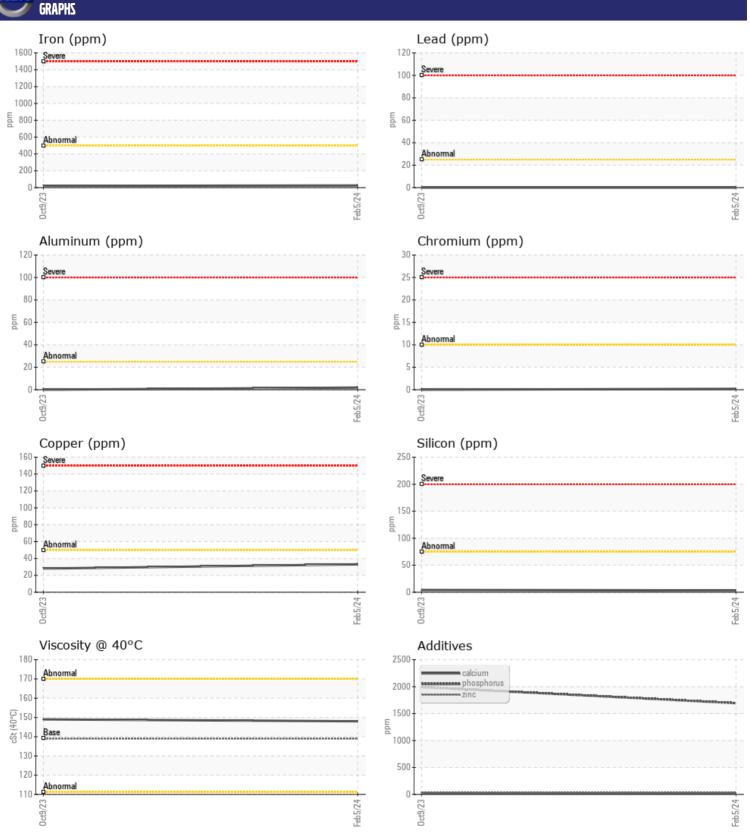
 Signed:
 Wes Davis

 Report Date:
 22 Feb 2024











SWA474120-1 SENNEBOGEN 835 835.0.2487 - REAR RIGHT FINA



Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5

■0

**-<1** 

**Job No:** SWA474120-1

ppm

ppm

Sodium

Potassium

ZAMPI	E INFORMATION				
	<u> </u>		VCD20C2C4		
Sample Number		VCP434190	VCP396364	 	
Sample Date		05 Feb 2024	09 Oct 2023	 	
Machine Hours		11725	11163	 	
Oil Hours		500	2000	 	
Oil Changed		Not Changd	Changed	 	
Sample Status		NORMAL	NORMAL	 	
OIL COI	NDITION				
Visc @ 40°C	cSt	<b>149</b>	□143	 	
CONTA	MINATION				
Water	%	NEG	NEG	 	
Silicon	mag	<b>4</b>	<b>1</b> 5	 	

WEVD I	METALS			
WLARI	AIC I MC7			
Iron	ppm	■28	<b>6</b> 2	 
Copper	ppm	■32	<b>5</b>	 
Lead	ppm	<b>0</b>	<b>0</b>	 
Tin	ppm	■0	<b>0</b>	 
Aluminum	ppm	<b>2</b>	< 1	 
Chromium	ppm	<b>■&lt;1</b>	<b>-</b> <1	 
Molybdenum	ppm	<b>■</b> 0	<b>0</b>	 
Nickel	ppm	■0	<b>0</b>	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>■</b> 0	<b>1</b>	 
Vanadium	ppm	0	0	 

**0** 

ADDIT	Zavi			
Calcium	ppm	<b>17</b>	■29	 
Magnesium	ppm	■8	<b>2</b> 7	 
Zinc	ppm	<b>28</b>	■37	 
Phosphorus	ppm	1727	1836	 
Barium	ppm	<b>■&lt;1</b>	<b>2</b>	 
Boron	mag	<b>149</b>	□132	 



#### **ALTA EQUIPMENT COMPANY**

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

### 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:
 10888739

 Signed:
 Wes Davis

 Report Date:
 22 Feb 2024







