

497550-10 ALTER SENNEBOGEN 835 835.0.2949 - COOLANT

Sample No: VCP434780

Oil Type: CONVENTIONAL COOLANT

Job No: 497550-10 ALTER

SAMPLE IN	FORMATION			
Sample Number	-	VCP434780	 	
Sample Date		01 Mar 2024	 	
Machine Hours		5345	 	
Sample Status		NORMAL	 	
COOLANT	CONDITION			
рН	Scale 0-14	7.90	 	
Reserve Alkalinity	Scale 0-20		 	
Nitrites	ppm	■ NT	 	
Percentage Glycol	%	56.7	 	
Freezing Point	°C	-50	 	
CONTAMIN	IATION			
Coolant Appearance		normal	 	
Coolant Color		Black	 	



ALTA EQUIPMENT COMPANY

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

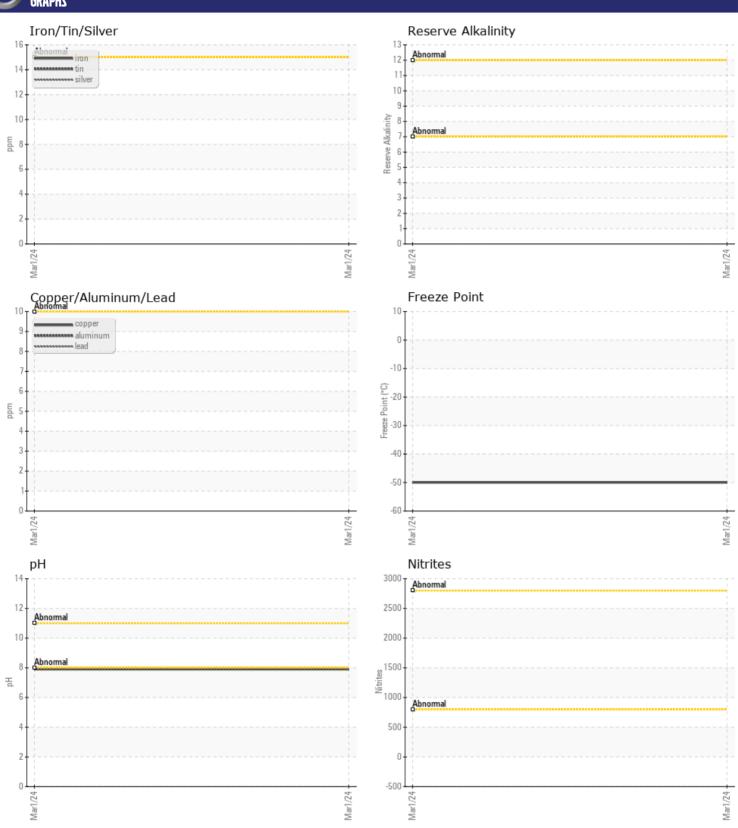
Depot:VOLVO5054Unique No:10923564Signed:Jonathan HesterReport Date:13 Mar 2024







GRAPHS





497550-10 ALTER PEOR SENNEBOGEN 835 835.0.2949 - DIESEL ENGIN

Sample No: VCP434632

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

Job No: 497550-10 ALTER PEOR

SAMPLE II	NFORMATION				
Sample Number	-	VCP434632	VCP396390	VCP363692	
Sample Date		01 Mar 2024	10 Oct 2023	01 Nov 2022	
Machine Hours		5345	4362	1872	
Oil Hours		1000	500	500	
Oil Changed		Changed	Changed	Changed	
Sample Status		SEVERE	NORMAL	NORMAL	
OIL CONDI	TION				
Visc @ 100°C	cSt	10.7	■13.6	□13.1	
Base Number (BN)	mg KOH/g	4.1	5.7	■ 10.9	
Oxidation (PA)	%	141	107	65	
CONTAMIN	NATION				
Water	%	NEG	NEG	NEG	
Soot %	%	0.2	■0.4	□ 0.1	
Nitration (PA)	%	88	99	63	
Sulfation (PA)	%	78	73	57	
Glycol	%	NEG	NEG	NEG	
Fuel	%	▲ 9.7	<1.0	<1.0	
Silicon	ppm	■ 4	6	■3	
Sodium	ppm	■<1	1	■ 3	
Potassium	ppm	6	■22	■8	
WEAR ME	TALS				
Iron	ppm	■26	7 3	5	
Copper	ppm	2	2	1	
Lead	ppm	■ <1	■0	□0	
Tin	ppm	■ <1	- <1	< 1	
Aluminum	ppm	■3	■8	2	
Chromium	ppm	1	■3	 <1	
Molybdenum	ppm	58	6 3	58	
Nickel	ppm	□ <1	<1	_2	
Titanium	ppm	<1	0	0	
Silver	ppm	■<1	0	 <1	
Manganese	ppm	■ <1	- <1	 <1	
Vanadium	ppm	<1	0	<1	

1227

909

1343

□1062

1

1136

942

1270

1028

0

14



ALTA EQUIPMENT COMPANY

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

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO5054Unique No:10922808Signed:Sean FeltonReport Date:13 Mar 2024

1006

859

1095

919

0

0

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

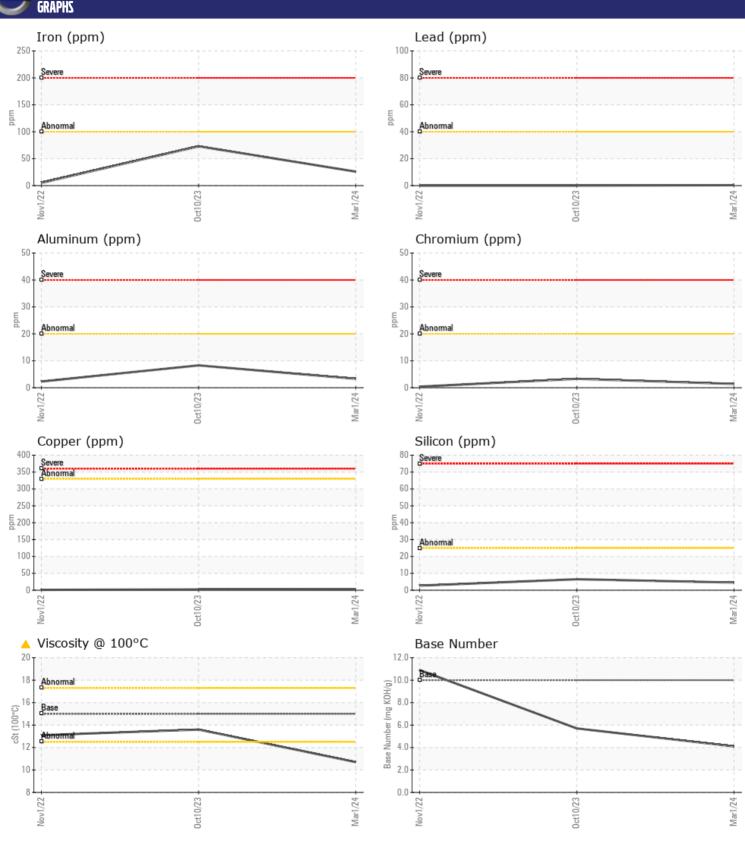
Magnesium

Phosphorus











CONSTRUCTION EQUIPMENT
497550-10 ALTER SENNEBOGEN 835 835.0.2949 - TRANSMISSIO

Sample No: VCP434948

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

Job No: 497550-10 ALTER

VOLVO			
SAMPLE INFO	RMATION		
Sample Number	VCP434948	VCP367853	
·			
Sample Date	01 Mar 2024	10 Oct 2023	
Machine Hours	5345	4362	
Oil Hours	1000	2000	
Oil Changed	Changed	Changed	
Sample Status	NORMAL	ABNORMAL	
OIL CONDITION	ı		
OIL CONDITION			
Visc @ 40°C cS	t 67.0	66.1	
CONTAMINAT	ION		
CONTAMINAT	IUN		

CONT	AMINATION				
Water	%	NEG	NEG	 	
Silicon	ppm	■8	6	 	
Sodium	ppm	■ 5	□9	 	
Potassium	ppm	■2	0	 	

WEAR	METALS			
Iron	ppm	43	4 5	
Copper	ppm	40	5 1	
Lead	ppm	■<1	0	
Tin	ppm	2	2	
Aluminum	ppm	2	2	
Chromium	ppm	■<1	- <1	
Molybdenum	ppm	45	2 7	
Nickel	ppm	0	0	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	10	1 0	
Vanadium	ppm	0	0	

ADDIT	Zavi			
Calcium	ppm	1197	1317	
Magnesium	ppm	■822	663	
Zinc	ppm	1117	■972	
Phosphorus	ppm	1045	908	
Barium	ppm	0	1	
Boron	ppm	23	4 2	



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

Diagnosis

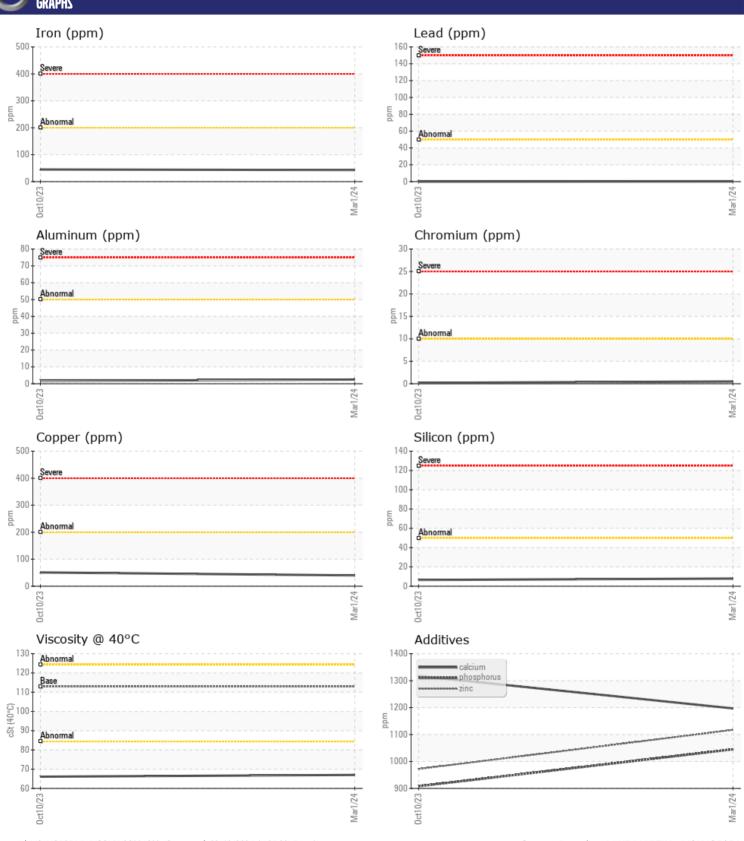
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10923526 Signed: Jonathan Hester Report Date: 13 Mar 2024











SWA497550-10 ALTER P SENNEBOGEN 835 835.0.2949 - HYDRAULIC SYSTE

Sample No: VCP434446

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: SWA497550-10 ALTER P

SAMPLE IN	NFORMATION				
Sample Number		VCP434446	VCP396388		
Sample Date		01 Mar 2024	10 Oct 2023		
Machine Hours		5345	4362		
Oil Hours		5345	4362		
Oil Changed		Not Changd	Changed		
Sample Status		ATTENTION	ATTENTION		
OIL CONDI.	TION				
Visc @ 40°C	cSt	34.9	33.16		
Acid Number (AN)	mg KOH/g	■ 0.89	□ 0.99		
CONTAMIN	JATION				
_	_			-	
Water	%	NEG	NEG		
Particles >4µm		2600	■1049		
Particles >6µm		■811	■370		
Particles >14µm		■ 55	5 1		
ISO 4406:1999 (c)		19/17/13	17/16/13		
Silicon	ppm	■<1	2		
Sodium	ppm	7	7		
Potassium	ppm	■0	0		

WEAR N	METALS			
Iron	ppm	5	7	
Copper	ppm	2	2	
Lead	ppm	0	< 1	
Tin	ppm	■0	0	
Aluminum	ppm	0	0	
Chromium	ppm	■<1	- <1	
Molybdenum	ppm	0	0	
Nickel	ppm	■0	0	
Titanium	ppm	0	0	
Silver	ppm	0	0	
Manganese	ppm	0	0	
Vanadium	ppm	0	0	

ADDITI	VES			
Calcium	ppm	714	1197	
Magnesium	ppm	■0	8	
Zinc	ppm	478	679	
Phosphorus	ppm	■377	562	
Barium	ppm	□ 0	0	
Boron	ppm	■0	0	



ALTA EQUIPMENT COMPANY

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Diagnosis

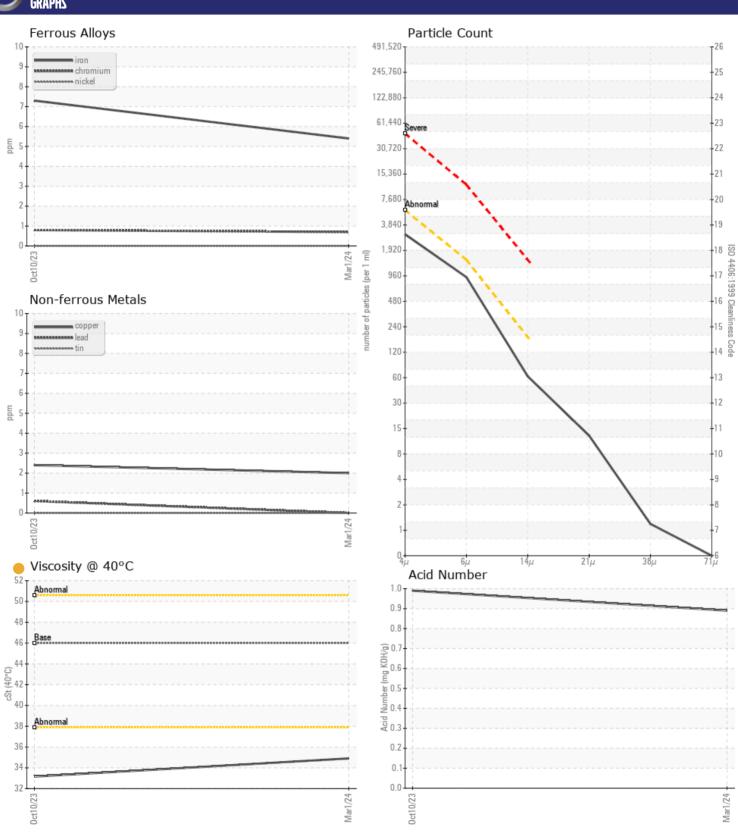
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Depot:VOLVO5054Unique No:10923026Signed:Don BaldridgeReport Date:12 Mar 2024











497550-10 ALTER SENNEBOGEN 835 835.0.2949 - LEFT SWING DRIV

Sample No: VCP434158

Oil Type: SHELL OMALA S4 GX 220

Job No: 497550-10 ALTER

CONTAMINATION Water % NEG △ 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
Sample Date 01 Mar 2024 10 Oct 2023 Machine Hours 5345 4362 Oil Hours 1000 2000 Oil Changed Not Changed Sample Status NORMAL ABNORMAL Visc @ 40°C cSt 236 215 CONTAMINATION Vater % NEG 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
Machine Hours 5345 4362 Oil Hours 1000 2000 Oil Changed Not Changed Sample Status NORMAL ABNORMAL Visc @ 40°C cSt 236 215 CONTAMINATION Water % NEG 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
Oil Hours 1000 2000 Oil Changed Not Changed Sample Status NORMAL ABNORMAL Visc @ 40°C cSt 236 215 CONTAMINATION Vater % NEG 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
Oil Changed Not Changed Sample Status NORMAL ABNORMAL OIL CONDITION Visc @ 40°C cSt 236 215 CONTAMINATION Water % NEG 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
Sample Status NORMAL ABNORMAL OIL CONDITION Visc @ 40°C cSt 236 215 CONTAMINATION Water % NEG ▲ 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
OIL CONDITION Visc @ 40°C cSt 236 215 CONTAMINATION Water % NEG △ 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
OIL CONDITION Visc @ 40°C cSt 236 215 CONTAMINATION Water % NEG ○ .366 Silicon ppm 9 18 Sodium ppm 3 0	
Visc @ 40°C cSt 236 215 CONTAMINATION Water % NEG ○ 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
CONTAMINATION Water % NEG △ 0.366 Silicon ppm 9 18 Sodium ppm 3 0	
CONTAMINATION Water % NEG △ 0.366 Silicon ppm ■ 9 ■ 18 Sodium ppm ■ 3 ■ 0	
CONTAMINATION Water % NEG △ 0.366 Silicon ppm ■ 9 ■ 18 Sodium ppm ■ 3 ■ 0	
Water % NEG △ 0.366 Silicon ppm ■ 9 ■ 18 Sodium ppm ■ 3 ■ 0	
Silicon ppm 9 18 Sodium ppm 3 0	
Sodium ppm ■3 ■0	
Potassium ppm 1 0	
VOLVO	
WEAR METALS	
VOLVO	
ADDITIVES	
Calcium ppm 9 ■9	
Magnesium ppm □1 □4	

71

341

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5



ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE BLOOMINGTON, IL US 61705 Contact: MIKE MARTIN mike.martin@altaequipment.com T: 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: 10923484
Signed: Wes Davis
Report Date: 12 Mar 2024

52

407

0

16

ppm

ppm

ppm

ppm

Zinc

Barium

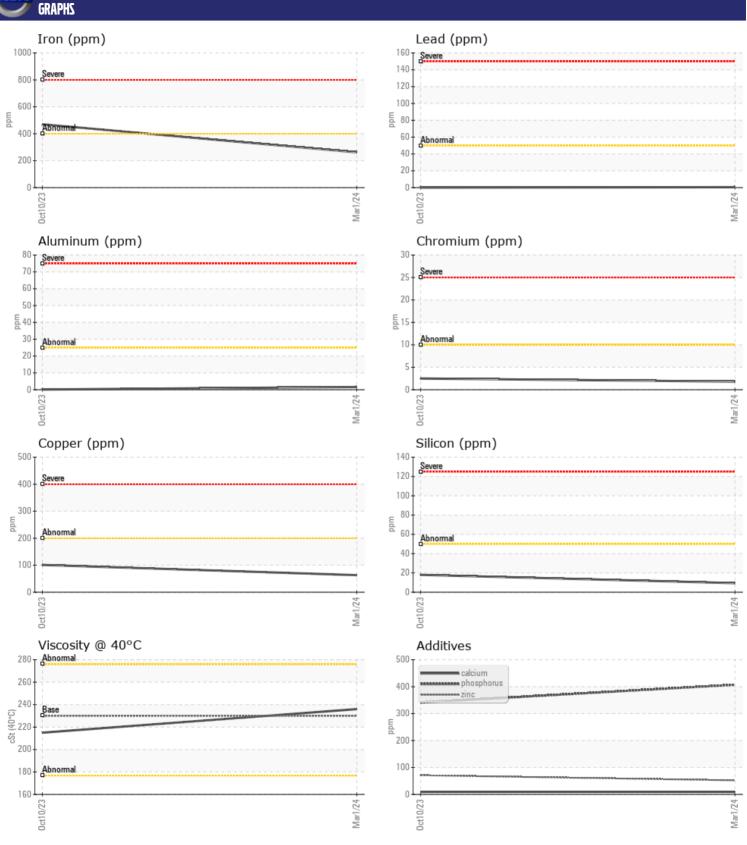
Boron

Phosphorus











497550-10 ALTER SENNEBOGEN 835 835.0.2949 - RIGHT SWING DRI

Sample No: VCP434443

Oil Type: SHELL OMALA S4 GX 220

Job No: 497550-10 ALTER

VOLVO				
SAMPLE	INFORMATION			
Sample Number	-	VCP434443	VCP396387	
Sample Date		01 Mar 2024	10 Oct 2023	
Machine Hours		5345	4362	
Oil Hours		1000	2000	
Oil Changed		Not Changd	Changed	
Sample Status		NORMAL	ABNORMAL	
OIL CON	DITION			
Visc @ 40°C	cSt	■224	□215	
CONTAN	MINATION			
Water	%	NEG	△ 0.234	
Silicon	ppm	11	1 7	
Sodium	ppm	■2	- <1	
Potassium	ppm	■2	- <1	
VOLVO				
WEAR N	METALS			
Iron	ppm	■354	■344	
Copper	ppm	79	9 2	
Lead	ppm	■<1	0	
Tin	ppm	■ 9	1 2	
Aluminum	ppm	■2	- <1	
Chromium	ppm	■ 2	2	
Molybdenum	ppm	■ <1	0	
Nickel	ppm	■1	- <1	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	■3	3	
Vanadium	ppm	0	0	
VOLVO	IFC			
ADDITIV	152			
Calcium	ppm	7	8	
Magnesium	ppm	■ <1	3	
Zinc	ppm	■53	5 2	
Phosphorus	ppm	407	■329	
ъ .			_ 4	

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3



ALTA EQUIPMENT COMPANY

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

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 fluid. The condition of the fluid is acceptable for the time in service.

Depot:VOLVO5054Unique No:10923485Signed:Don BaldridgeReport Date:13 Mar 2024

0

17

ppm

ppm

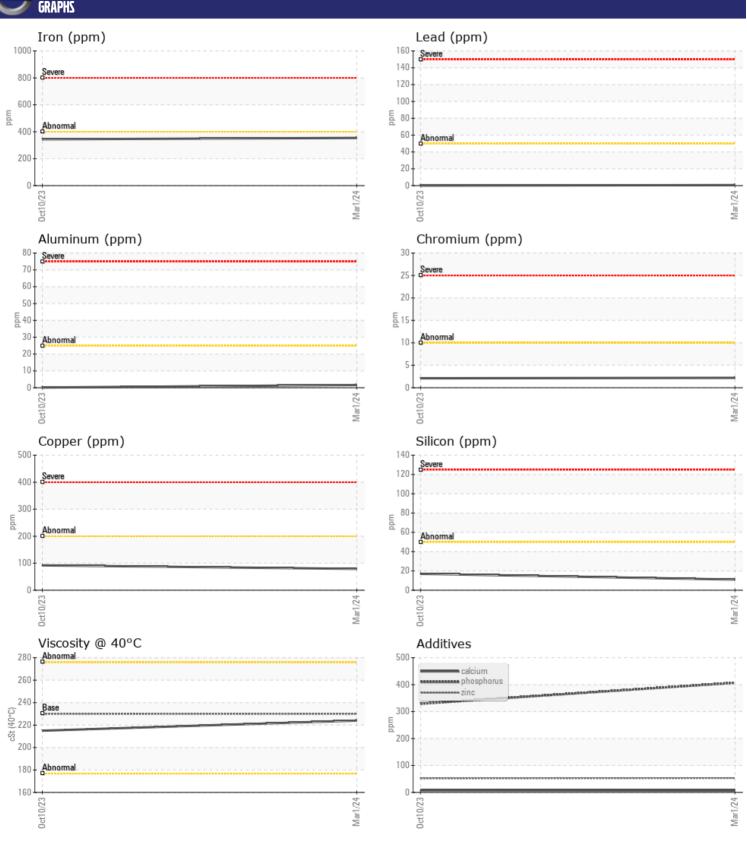
Barium

Boron











497550-10 ALTER SENNEBOGEN 835 835.0.2949 - FRONT LEFT FINAL DRIV

4

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Sample No: VCP434983

Sodium

Potassium

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

Job No: 497550-10 ALTER

ppm

ppm

2

-<1

SAMPL	E INFORMATIO	N			
Sample Number		VCP434983	VCP396392	VCP396389	VCP363694
Sample Date		01 Mar 2024	10 Oct 2023	10 Oct 2023	01 Nov 2022
Machine Hours		5345	4362	4362	1872
Oil Hours		1000	2000	2000	2000
Oil Changed		Not Changd	Changed	Changed	Changed
Sample Status		ABNORMAL	NORMAL	ABNORMAL	ABNORMAL
OIL CON	IDITION				
Visc @ 40°C	cSt	■137	142	1 41	□152
	MINATION				
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 5	6	7	■3

WEAR	METALS				
Iron	ppm	□ 286	□190	6 41	175
Copper	ppm	△ 73	2 3	<u>^</u> 202	1 17
Lead	ppm	-<1	0	0	< 1
Tin	ppm	■ 0	0	0	0
Aluminum	ppm	■3	< 1	■8	5
Chromium	ppm	1	1	3	< 1
Molybdenum	ppm	0	0	0	< 1
Nickel	ppm	■ 0	- <1	□0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	5	4	1 5	7
Vanadium	ppm	0	0	0	0

1

ADDITIV	/ES				
Calcium	ppm	67	157	■223	6
Magnesium	ppm	■ 2	5	6	1
Zinc	ppm	74	■87	241	■97
Phosphorus	ppm	1881	□1748	□ 1733	□ 1797
Barium	ppm	1	7	1 5	1 8
Boron	ppm	147	■86	■108	□100



ALTA EQUIPMENT COMPANY

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Diagnosis

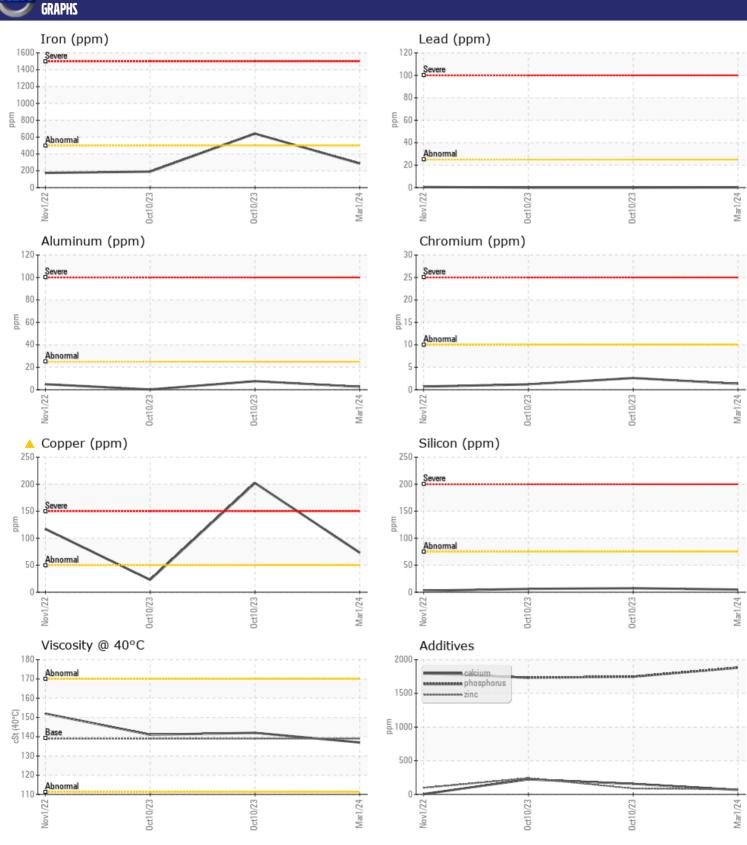
No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO5054Unique No:10923503Signed:Sean FeltonReport Date:14 Mar 2024











CONSTRUCTION EQUIPMENT
497550-10 ALTER SENNEBOGEN 835 835.0.2949 - FRONT AXLE

Sample No: VCP434448

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

Job No: 497550-10 ALTER

VOLVO				
	FORMATION			
		VCD205052	V/CD262604	
Sample Number	VCP434448	VCP395852	VCP363684	
Sample Date	01 Mar 2024	10 Oct 2023	01 Nov 2022	
Machine Hours	5345	4362	1872	
Oil Hours	1000	2000	2000	
Oil Changed	Not Changd	Changed	Changed	
Sample Status	NORMAL	NORMAL	NORMAL	
OIL CONDIT	ION			
Visc @ 40°C	cSt 138	□ 137	153	
CONTAMINA	ATION			

CONT	AMINATION				
Water	%	NEG	NEG	NEG	
Silicon	ppm	6	3	2	
Sodium	ppm	2	< 1	□ 0	
Potassium	ppm	1	0	□1	

WEAR	METALS				
Iron	ppm	■ 287	1 4	1 1	
Copper	ppm	72	2 2	45	
Lead	ppm	■ <1	0	□ 0	
Tin	ppm	■<1	0	□0	
Aluminum	ppm	■ 3	0	■ 0	
Chromium	ppm	2	0	□0	
Molybdenum	ppm	■ <1	0	0	
Nickel	ppm	■ <1	0	□0	
Titanium	ppm	<1	0	0	
Silver	ppm	0	0	1	
Manganese	ppm	6	- <1	< 1	
Vanadium	ppm	0	0	0	

ADDIT	IVES				
Calcium	ppm	■ 59	249	4	
Magnesium	ppm	1	4	- <1	
Zinc	ppm	70	151	2 6	
Phosphorus	ppm	1813	1540	■ 1705	
Barium	ppm	1	2	0	
Boron	ppm	147	57	■94	



ALTA EQUIPMENT COMPANY

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

Diagnosis

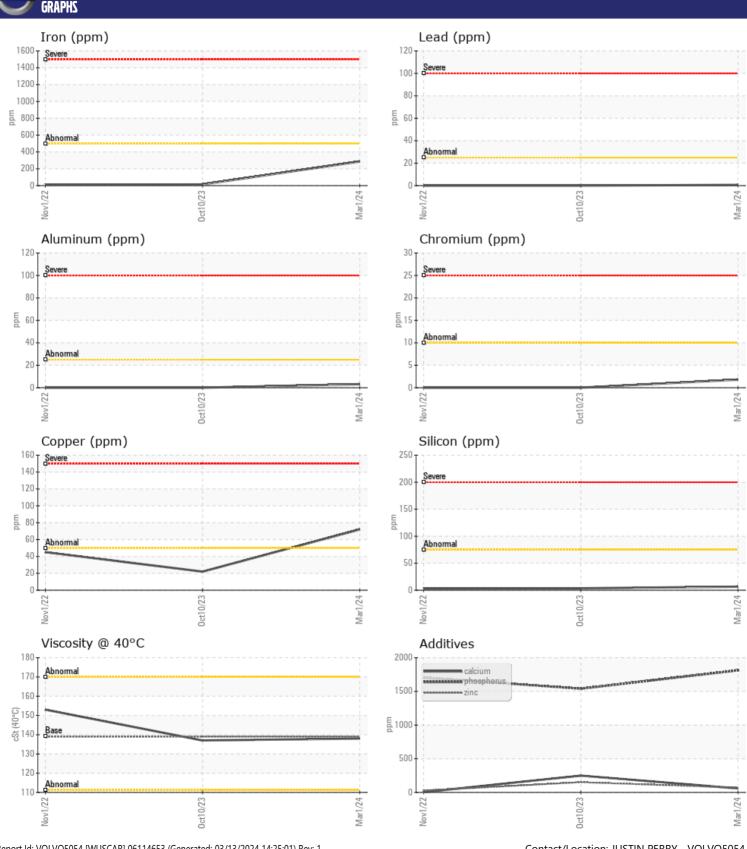
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10923486 Signed: Don Baldridge Report Date: 13 Mar 2024











CONSTRUCTION EQUIPMENT
497550-10 ALTER SENNEBOGEN 835 835.0.2949 - FRONT RIGHT

Sample No: VCP434447

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

Job No: 497550-10 ALTER

SAMPLE I	NFORMATIO	N _			
Sample Number		VCP434447	VCP396393	VCP363685	
Sample Date		01 Mar 2024	10 Oct 2023	01 Nov 2022	
Machine Hours		5345	4362	1872	
Oil Hours		1000	2000	500	
Oil Changed		Not Changd	Changed	Not Changd	
Sample Status		NORMAL	ABNORMAL	ABNORMAL	
OIL COND	ITION				
Visc @ 40°C	cSt	■137	□142	□ 154	
CONTAMI	NATION				
Water	%	NEG	NEG	NEG	
Silicon	ppm	5	■8	5	
Sodium	ppm	2	4	2	
Potassium	ppm	■<1	0	2	

VOLVO					
	METALS				
Iron	ppm	174	436	1 36	
Copper	ppm	23	4 91	△ 95	
Lead	ppm	-<1	0	< 1	
Tin	ppm	■ 0	0	□0	
Aluminum	ppm	2	3	4	
Chromium	ppm	-<1	2	< 1	
Molybdenum	ppm	0	0	< 1	
Nickel	ppm	■ 0	0	0	
Titanium	ppm	0	<1	<1	
Silver	ppm	0	0	1	
Manganese	ppm	2	1 0	5	
Vanadium	ppm	0	0	0	

ADDIT	IVES				
Calcium	ppm	■81	■386	1 7	
Magnesium	ppm	■ 2	6	■3	
Zinc	ppm	■52	245	7 8	
Phosphorus	ppm	1821	1778	1692	
Barium	ppm	■<1	1 7	2 9	
Boron	ppm	161	■ 107	■ 100	



ALTA EQUIPMENT COMPANY

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

F:

Diagnosis

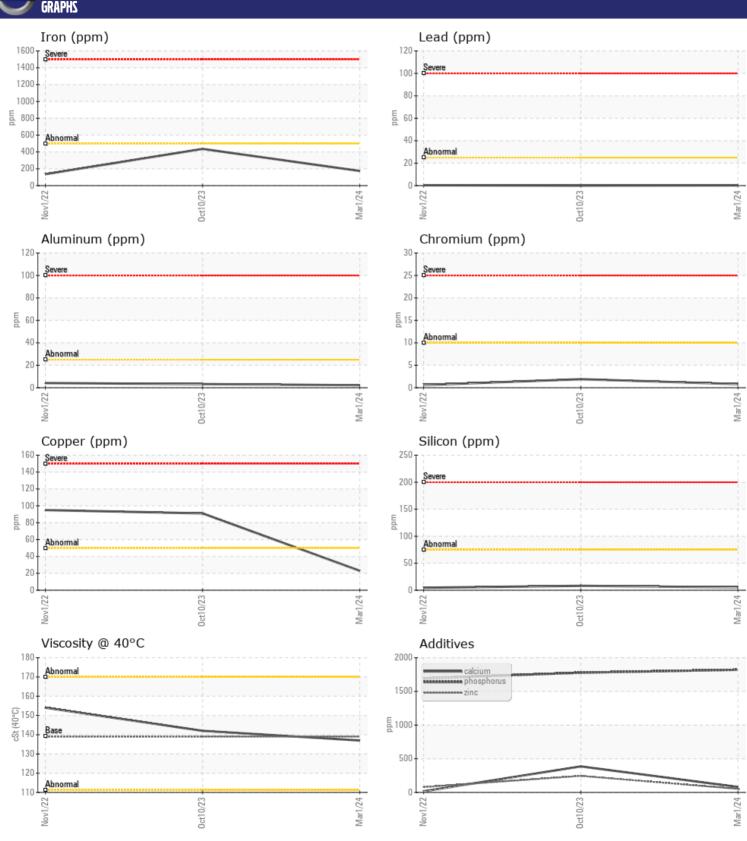
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10923505 Signed: Wes Davis Report Date: 12 Mar 2024











CONSTRUCTION EQUIPMENT
497550-10 ALTER SENNEBOGEN 835 835.0.2949 - REAR LEFT FIN

Sample No: VCP434943

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

Job No: 497550-10 ALTER

VOLVO	INFORMATION				
_	INFORMATION		VCD206296	VCD262696	
Sample Number		VCP434943	VCP396386	VCP363686	
Sample Date		01 Mar 2024	10 Oct 2023	01 Nov 2022	
Machine Hours		5345	4362	1872	
Oil Hours		1000	2000	2000	
Oil Changed		Not Changd	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
OIL COND	ITION				
Visc @ 40°C	cSt	137	142	1 52	
VOLVO					
CONTAM	INATION				
Water	0/.	NEG	NEC	NEG	

LUNIA	AMINA HUN				
Water	%	NEG	NEG	NEG	
Silicon	ppm	6	6	2	
Sodium	ppm	■<1	2	0	
Potassium	ppm	■<1	0	1	
VOLVO	MERALG				
WEAR	METALS				
luan	10.10.100	= 126	m 100	m 20	

WEAK M	F1AL2				
Iron	ppm	136	□188	■39	
Copper	ppm	■5	■23	1 1	
Lead	ppm	■<1	0	- <1	
Tin	ppm	■0	0	0	
Aluminum	ppm	2	< 1	0	
Chromium	ppm	■<1	1	□ 0	
Molybdenum	ppm	0	0	0	
Nickel	ppm	■<1	- <1	0	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	<1	
Manganese	ppm	2	4	< 1	
Vanadium	ppm	0	0	0	

ADDITION							
Calcium	ppm	■ 50	■158	2			
Magnesium	ppm	■1	4	- <1			
Zinc	ppm	■25	■85	9			
Phosphorus	ppm	1841	1757	■ 1819			
Barium	ppm	0	■8	< 1			
Boron	ppm	122	91	■89			



ALTA EQUIPMENT COMPANY

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Diagnosis

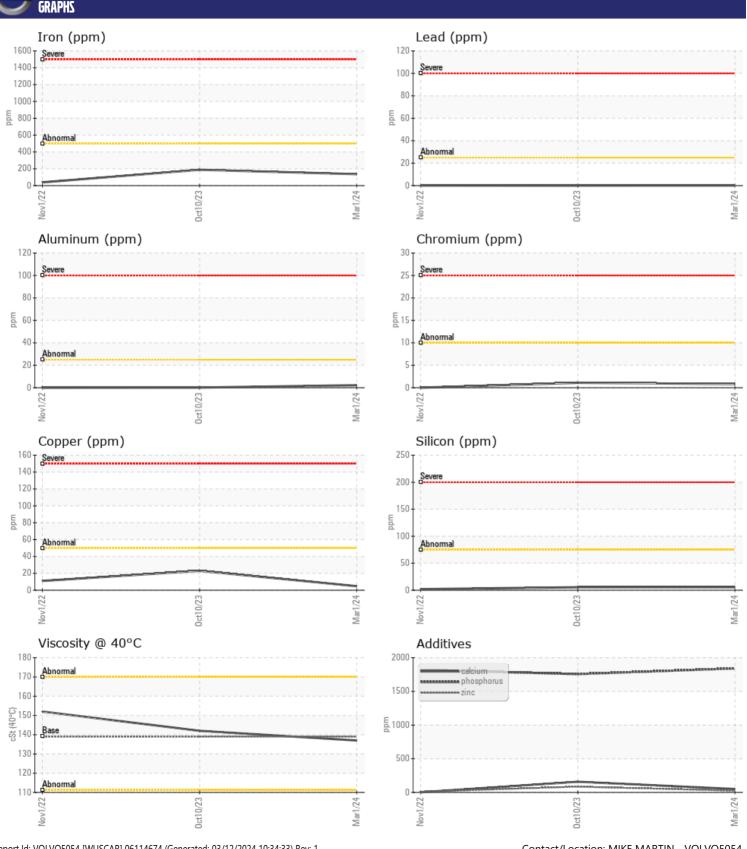
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054 **Unique No:** 10923507 Signed: Wes Davis Report Date: 12 Mar 2024











497550-10 ALTER SENNEBOGEN 835 835.0.2949 - REAR AXLE

0

Sample No: VCP434444

Silicon

Sodium

Potassium

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

5

1

-<1

Job No: 497550-10 ALTER

ppm

ppm

ppm

SAMP	LE INFORMATION				
Sample Numbe		VCP434444	VCP396385	VCP363688	
Sample Date		01 Mar 2024	10 Oct 2023	01 Nov 2022	
Machine Hours		5345	4362	1872	
Oil Hours		1000	2000	2000	
Oil Changed		Not Changd	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
OIL CO	NDITION				
Visc @ 40°C	cSt	137	142	1 52	
CONTA	AMINATION				
Water	%	NEG	NEG	NEG	

WEAR	METALS				
Iron	ppm	108	□ 185	□ 33	
Copper	ppm	4	2 2	1 1	
Lead	ppm	-<1	0	0	
Tin	ppm	■0	0	■0	
Aluminum	ppm	2	< 1	0	
Chromium	ppm	■<1	1	0	
Molybdenum	ppm	0	0	0	
Nickel	ppm	■<1	 <1	0	
Titanium	ppm	0	0	0	
Silver	ppm	3	0	<1	
Manganese	ppm	1	4	 <1	
Vanadium	ppm	0	0	0	

ADDITI	VES				
Calcium	ppm	50	161	6 1	
Magnesium	ppm	2	5	<1	
Zinc	ppm	■28	■89	■33	
Phosphorus	ppm	1853	1775	1844	
Barium	ppm	2	7	< 1	
Boron	mag	■93	□90	■96	



ALTA EQUIPMENT COMPANY

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

Diagnosis

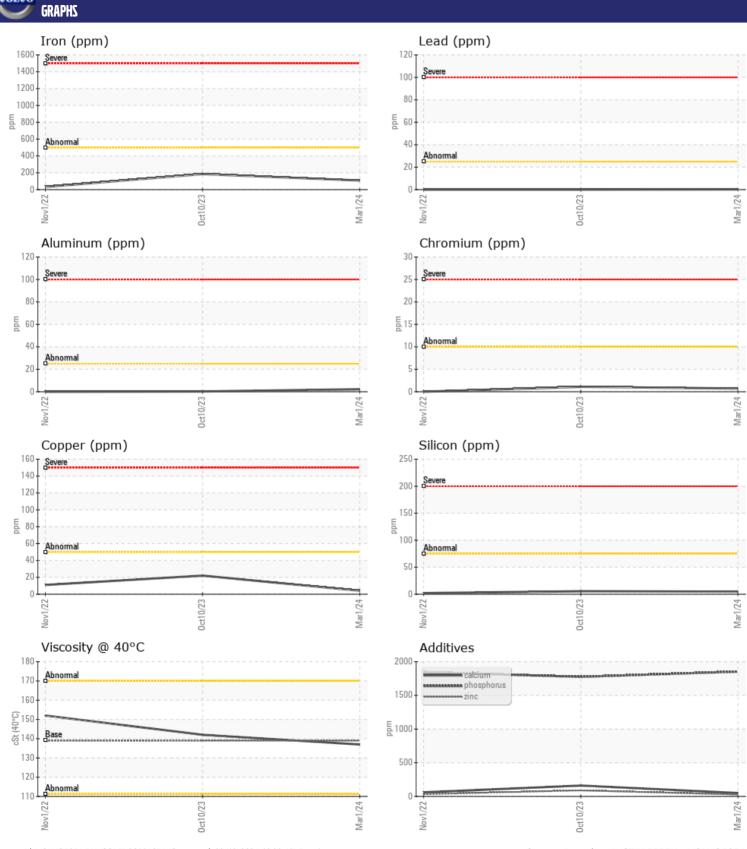
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO5054
Unique No: 10923487
Signed: Wes Davis
Report Date: 12 Mar 2024











497550-10 ALTER SENNEBOGEN 835 835.0.2949 - REAR RIGHT FINAL DRIV

Sample No: VCP433765

Potassium

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

Job No: 497550-10 ALTER

ppm

VOLVO							
SAMPLE	INFORMATION						
Sample Number	-	VCP433765	VCP363687				
Sample Date		01 Mar 2024	01 Nov 2022				
Machine Hours		5345	1872				
Oil Hours		1000	500				
Oil Changed		Not Changd	Not Changd				
Sample Status		NORMAL	NORMAL				
OIL CONDITION							
Visc @ 40°C	cSt	136	m150				
VISC @ 40 C	CSI	130	<u> </u>				
VOLVO							
CONTAM	INATION						
Water	%	NEG	NEG				
Silicon	ppm	6	2				
Sodium	ppm	■<1	0				

WEAR I	METALS			
Iron	ppm	124	□34	
Copper	ppm	6	1 1	
Lead	ppm	0	□0	
Tin	ppm	■ 0	■0	
Aluminum	ppm	2	0	
Chromium	ppm	■ <1	0	
Molybdenum	ppm	0	0	
Nickel	ppm	-<1	0	
Titanium	ppm	0	0	
Silver	ppm	0	<1	
Manganese	ppm	1	- <1	
Vanadium	ppm	0	0	

ADDITI	VES			
Calcium	ppm	50	4	
Magnesium	ppm	2	- <1	
Zinc	ppm	25	1 0	
Phosphorus	ppm	1930	□1766	
Barium	ppm	0	< 1	
Boron	ppm	112	■96	



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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:VOLVO5054Unique No:10923504Signed:Wes DavisReport Date:12 Mar 2024







