

CONSTRUCTION EQUIPMENT
SWA519518-10 ALTER Q SENNEBOGEN 825 825.0.4093 - DIESEL E

Sample No: VCP434045 Oil Type: SHELL 15W40

Magnesium

Phosphorus

Zinc

Barium

Boron

ppm

ppm

ppm

ppm

ppm

Job No: SWA519518-10 ALTER Q

SAMPLE II	NFORMATION			
Sample Number	_	VCP434045	 	
Sample Date		01 Apr 2024	 	
Machine Hours		193	 	
Oil Hours		193	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
		7151151111111		
OIL CONDI	TION			
_	_			
Visc @ 100°C	cSt	<u> </u>	 	
Base Number (BN)		7.1	 	
Oxidation (PA)	%	55	 	
VOLVO				
CONTAMIN	NATION			
Water	%	NEG	 	
Soot %	%	■0.1	 	
Nitration (PA)	%	66	 	
Sulfation (PA)	%	49	 	
Glycol	%	NEG	 	
Fuel	%	■1.2	 	
Silicon	ppm	23	 	
Sodium	ppm	4	 	
Potassium	ppm	 <1	 	
i otassia i i	PPIII	_ ``		
VOLVO WEAD ME	TALC			
WEAR ME	IALS			
Iron	ppm	11	 	
Copper	ppm	■ 9	 	
Lead	ppm	2	 	
Tin	ppm	■ 0	 	
Aluminum	ppm	■ 2	 	
Chromium	ppm	■<1	 	
Molybdenum	ppm	69	 	
Nickel	ppm	■<1	 	
Titanium	ppm	0	 	
Silver	ppm	■ 0	 	
Manganese	ppm	3	 	
Vanadium	ppm	<1	 	
ADDITIVE:	7			
Calcium		2130	 	
Calciulii	ppm	<u> </u>	 	

53

1022

941

66

Report Id: VOLVO5054 [WUSCAR] 06143932 (Generated: 04/15/2024 12:04:59) Rev: 1



ALTA EQUIPMENT COMPANY

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

Diagnosis

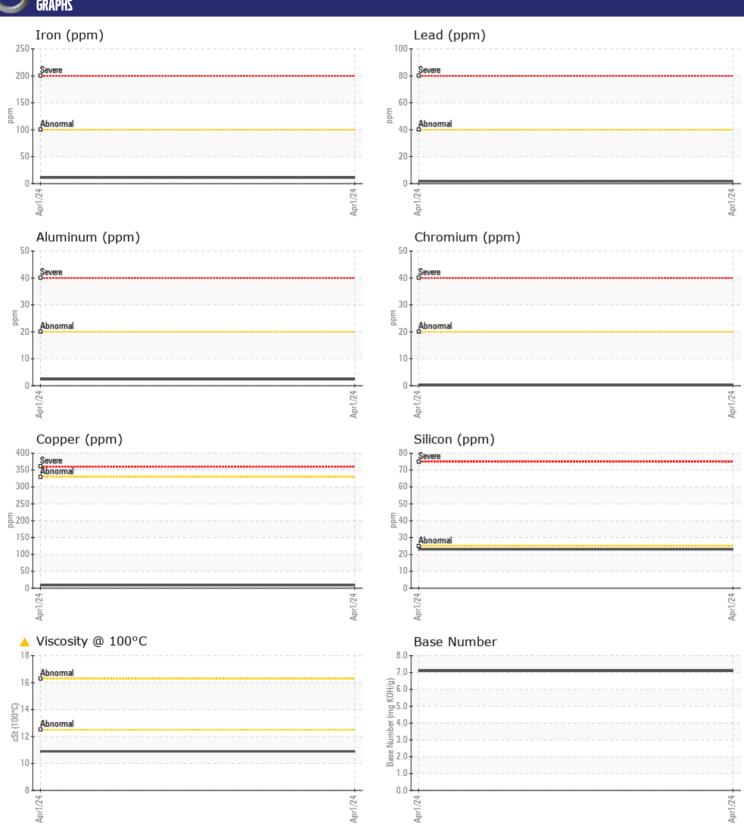
Resample at the next service interval to monitor.All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: VOLVO5054 Unique No: 10968740 Signed: Angela Borella Report Date: 15 Apr 2024











CONSTRUCTION EQUIPMENT 519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - TRANSMISSION

- TRANSMISSION (MANUAL)

Sample No: VCP438147
Oil Type: SHELL 15W40

Manganese

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ppm

ADDITIVES

18

■3225

1129

975

5

■9

Job No: 519518 ALTER QUINCY

SAMPLI	E INFORMATION			
Sample Number		VCP438147	 	
Sample Date		01 Apr 2024	 	
Machine Hours		193	 	
Oil Hours		193	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CON	IDITION			
Visc @ 40°C	cSt	■55.3	 	
CONTAI	MINATION			
Water	%	NEG	 	
Silicon	ppm	■ 5	 	
Sodium	ppm	■33	 	
Potassium	ppm	1	 	
WEAR	METALS			
Iron	ppm	■11	 	
Copper	ppm	12	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	■ 3	 	
Chromium	ppm	■ 0	 	
Molybdenum	ppm	■ 0	 	
Nickel	ppm	□ 0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	



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Diagnosis

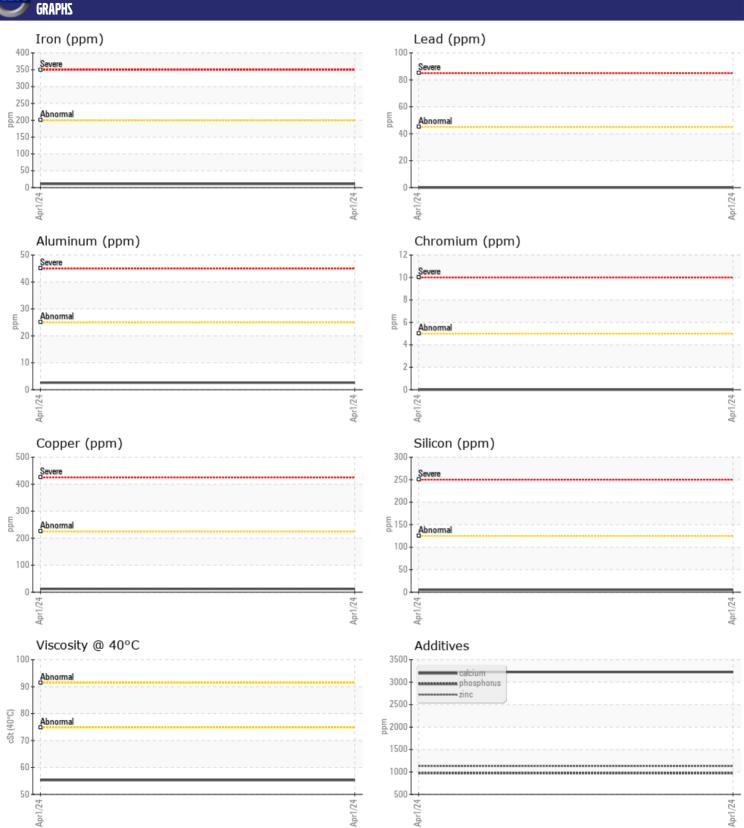
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot:VOLVO5054Unique No:10969534Signed:Don BaldridgeReport Date:13 Apr 2024











519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - HYDRAULIO

Sample No: VCP438325

Oil Type: SHELL AW HYDRAULIC S2 46

Job No: 519518 ALTER QUINCY

SAMPLE IN	NFORMATION				
Sample Number	-	VCP438325			
Sample Date		01 Apr 2024			
Machine Hours		193			
Oil Hours		193			
Oil Changed		Not Changd			
Sample Status		NORMAL			
OIT CONDI.	TION				
Visc @ 40°C	cSt	- 42.4	-	•	-
V13C @ +0 C	CSL	42.1			
Acid Number (AN)		■ 42.1 ■ 1.20			
Acid Number (AN)		_			
_	mg KOH/g	_			

CONTAM	INATION			
Water	%	NEG	 	
Particles >4µm		2751	 	
Particles >6µm		■ 564	 	
Particles >14µm		■30	 	
ISO 4406:1999 (c)		19/16/12	 	
Silicon	ppm	2	 	
Sodium	ppm	■ <1	 	
Potassium	ppm	■ 0	 	

WEAR	AETAI C			
_				
Iron	ppm	■ <1	 	
Copper	ppm	■<1	 	
Lead	ppm	0	 	
Tin	ppm	■0	 	
Aluminum	ppm	0	 	
Chromium	ppm	0	 	
Molybdenum	ppm	0	 	
Nickel	ppm	■ 0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm		 	
Vanadium	ppm	0	 	

ADDITI	VES			
Calcium	ppm	1376	 	
Magnesium	ppm	10	 	
Zinc	ppm	720	 	
Phosphorus	ppm	625	 	
Barium	ppm	■ 0	 	
Boron	ppm	■ 0	 	



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. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

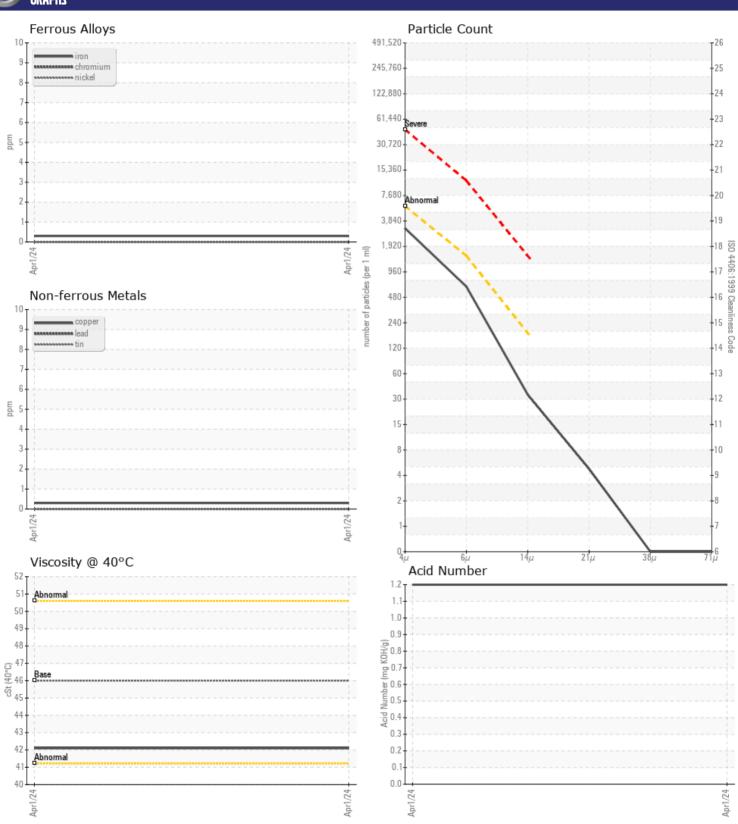
Depot:VOLVO5054Unique No:10968978Signed:Don BaldridgeReport Date:12 Apr 2024







GRAPHS





CONSTRUCTION EQUIPMENT
519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - FRONT LEF

Sample No: VCP438324

Oil Type: SHELL SPIRAX HD 80W90 Job No: 519518 ALTER QUINCY

VOLVO CAMPIE	INFORMATION	N		
			_	
Sample Number		VCP438324		
Sample Date		01 Apr 2024		
Machine Hours		193		
Oil Hours		193		
Oil Changed		Not Changd		
Sample Status		ATTENTION		
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	67.7		
Visc @ 40 C	CSt	U 1.1		
VOLVO				
CONTAN	MINATION			
Water	%	NEG		
Silicon	ppm	■8		
Sodium	ppm	■17		
Potassium	ppm	■ 0		
VOLVO	AFTALC			
WEAR N	NE I ALS			
Iron	ppm	15		
Copper	ppm	■ 9		
Lead	ppm	■<1		
Tin	ppm	■ 0		
Aluminum	ppm	■<1		
Chromium	ppm	■ 0		
Molybdenum	ppm	0		
Nickel	ppm	■ 0		
Titanium	ppm	0		
Silver	ppm	0		
Manganese	ppm	-<1		
Vanadium	ppm	_ <1		
VOLVO	IFC			
ADDITIV	E7			
Calcium	ppm	3397		
Magnesium	ppm	10		
Zinc	ppm	1367		
Phosphorus	ppm	1068		
Barium	ppm	■<1		
Boron	ppm	0 109		



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 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: VOLVO5054 **Unique No:** 10969515 Signed: Don Baldridge Report Date: 13 Apr 2024











CONSTRUCTION EQUIPMENT 519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - FRONT AX

Sample No: VCP438098

Oil Type: SHELL SPIRAX HD 80W90 Job No: 519518 ALTER QUINCY

VOLVO	LINEODMATIO	.		
	E INFORMATIO	N		
Sample Number		VCP438098	 	
Sample Date		01 Apr 2024	 	
Machine Hours		193	 	
Oil Hours		193	 	
Oil Changed		Not Changd	 	
Sample Status		ATTENTION	 	
OIL CON	DITION			
Visc @ 40°C	cSt	65.5	 	
COLVO	MINATION			
		NE C		
Water	%	NEG	 	
Silicon	ppm	11	 	
Sodium	ppm	15	 	
Potassium	ppm	■0	 	
VOLVO				
WEAR N	METALS			
Iron		a 6	 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	□ <1	 	
Chromium	ppm	0	 	
	ppm		 	
Molybdenum	ppm	0		
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	4	 	
Vanadium	ppm	<1	 	
VOLVO			 <u> </u>	
ADDITIV	VES			
Calcium	ppm	3510	 	
Magnesium	ppm	11	 	
Zinc	ppm	<u> </u>	 	
Phosphorus	ppm	1086	 	
Barium	ppm	-<1	 	
Boron	ppm	115	 	



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Diagnosis

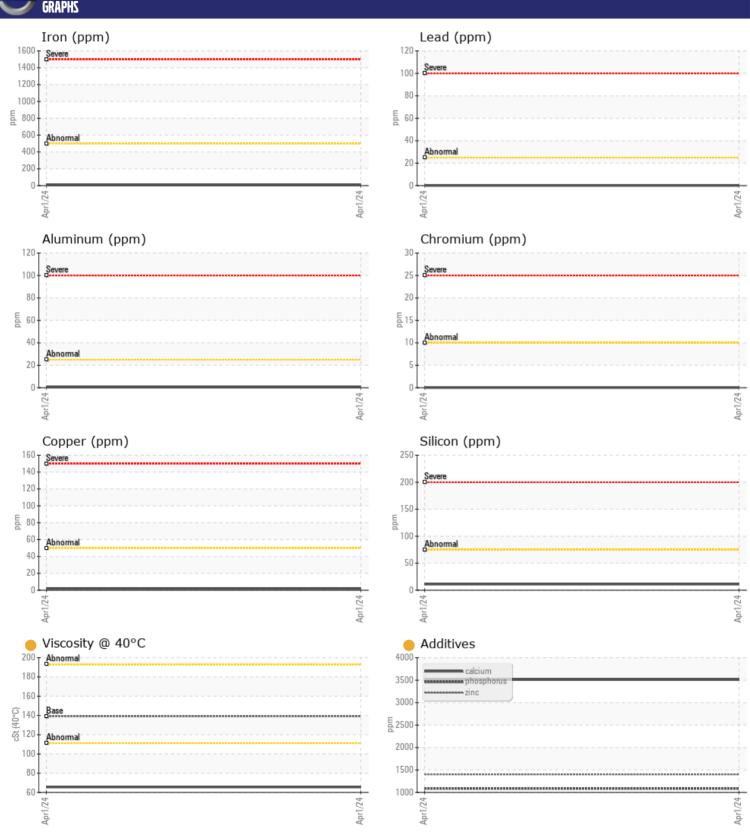
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO5054 **Unique No:** 10969514 Signed: Don Baldridge Report Date: 13 Apr 2024











CONSTRUCTION EQUIPMENT 519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - FRONT RIGHT

Sample No: VCP438099

Oil Type: SHELL SPIRAX HD 80W90 Job No: 519518 ALTER QUINCY

SAMPLE	INFORMATIO	N		
Sample Number		VCP438099	 	
Sample Date		01 Apr 2024	 	
Machine Hours		193	 	
Oil Hours		193	 	
Oil Changed		Not Changd	 	
Sample Status		ATTENTION	 	
OIL CON	NITION			
				<u> </u>
Visc @ 40°C	cSt	66.5	 	
VOLVO				
CONTAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	■ 8	 	
Sodium	ppm	17	 	
Potassium	ppm	■ 0	 	
WEAR M	ETALC			
_	IC I HT7			
Iron	ppm	■18	 	
Copper	ppm	10	 	
Lead	ppm	-<1	 	
Tin	ppm	■0	 	
Aluminum	ppm	1	 	
Chromium	ppm	0	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm		 	
Vanadium	ppm	0	 	
VOLVO				
ADDITIV	ES			
Calcium	ppm	3797	 	
Magnesium	ppm	1 0	 	
Zinc	ppm	1567	 	
Phosphorus	ppm	1265	 	
Barium	ppm	1	 	
Boron	ppm	121	 	



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Diagnosis

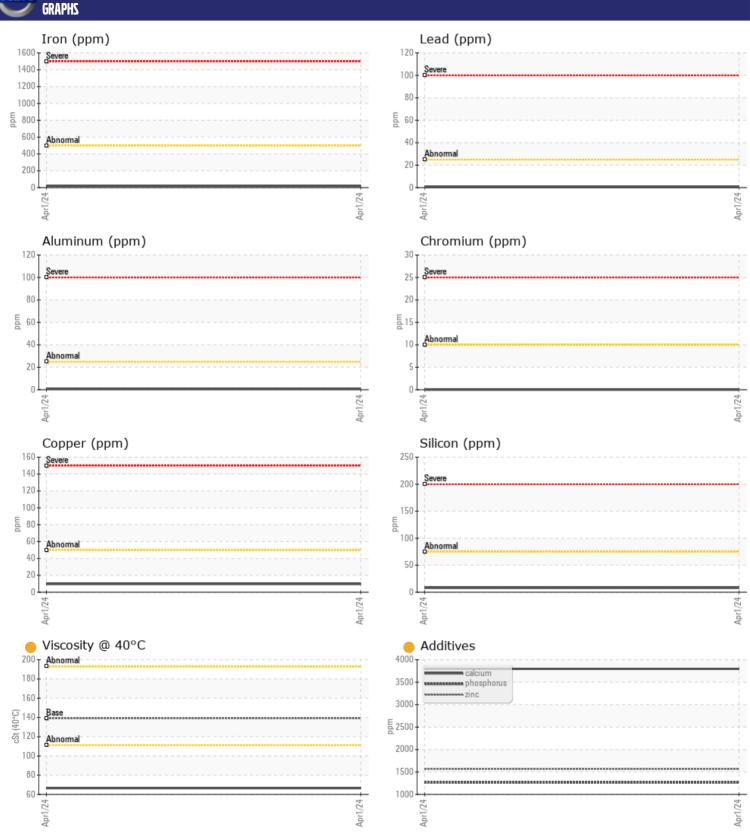
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO5054 **Unique No:** 10969494 Signed: Don Baldridge Report Date: 13 Apr 2024











519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - REAR LEFT

Sample No: VCP431484

Oil Type: SHELL SPIRAX HD 80W90

Job No: 519518 ALTER QUINCY

VOLVO		N		
	INFORMATIO			
Sample Number		VCP431484	 	
Sample Date		01 Apr 2024	 	
Machine Hours		193	 	
Oil Hours		193	 	
Oil Changed		Not Changd	 	
Sample Status		ATTENTION	 	
OIT CON	DITION			
	<u> </u>			
Visc @ 40°C	cSt	65.7	 	
VOLVO				
CONTAN	MINATION			
Water	%	NEG	 	
Silicon		NEG ■10	 	
Sodium	ppm	■ 15	 	
	ppm			
Potassium	ppm	■0	 	
VOLVO				
WEAR N	METALS			
Iron	ppm	18	 	
Copper	ppm	■3	 	
Lead	ppm	■0	 	
Tin	ppm	■0	 	
Aluminum	ppm	■ <1	 	
Chromium	ppm	- <1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium		0	 	
vailauluiii	ppm	U	 	
VOLVO			 	
ADDITIN	/ES			
Calcium	ppm	3760	 	
Magnesium	ppm	10	 	
Zinc	ppm	1546	 	
Phosphorus	ppm	1241	 	
Barium	ppm	<u> </u>	 	
Boron	ppm	121	 	
DOTOTT	ppiii	121		



ALTA EQUIPMENT COMPANY

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Diagnosis

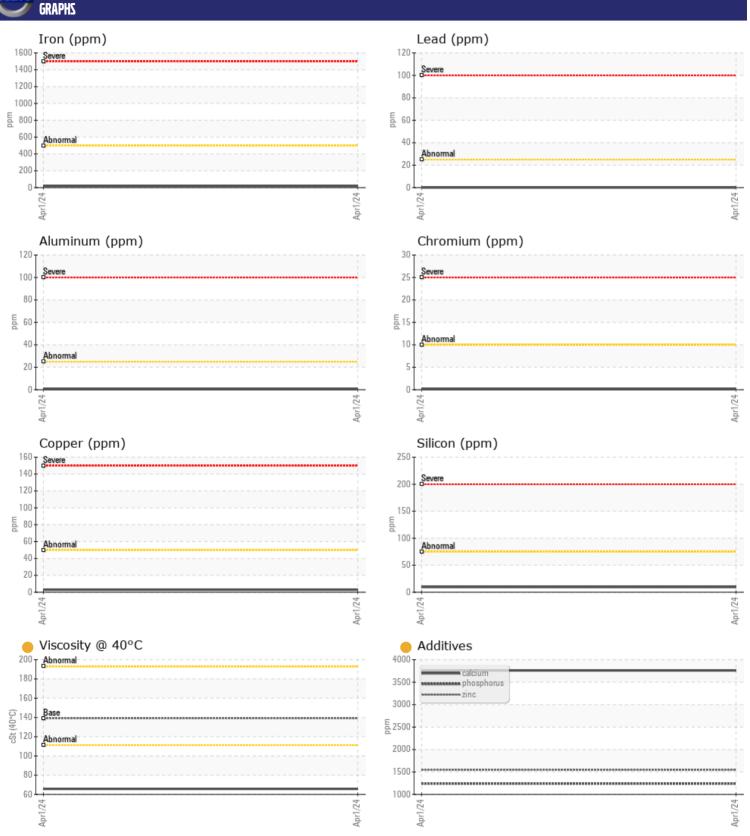
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot:VOLVO5054Unique No:10969493Signed:Don BaldridgeReport Date:13 Apr 2024











CONSTRUCTION EQUIPMENT 519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - REAR AXL



Oil Type: SHELL SPIRAX HD 80W90 Job No: 519518 ALTER QUINCY

VOLVO	INCODMATIO	M		
	INFORMATIO		_	
Sample Number		VCP438097		
Sample Date		01 Apr 2024		
Machine Hours		193		
Oil Hours		193		
Oil Changed		Not Changd		
Sample Status		ATTENTION		
OIL CON	DITION			
Visc @ 40°C	cSt	65.9		
VOLVO				
CONTAN	MINATION			
Water	%	NEG		
Silicon		NEG ■10		
Sodium	ppm	■ 16		
Potassium	ppm	■ 0		
Potassium	ppm	U		
VOLVO				
WEAR N	METALS			
Iron	ppm	9		
Copper	ppm	<u> </u>		
Lead	ppm	<u> </u>		
Tin	ppm	O		
Aluminum	ppm	■<1		
Chromium	ppm	■0		
Molybdenum	ppm	O		
Nickel	ppm	O		
Titanium	ppm	0		
Silver	ppm	0		
Manganese	ppm	2		
Vanadium	ppm	0		
ADDITIV	/ES			
Calcium	ppm	93916		
Magnesium	ppm	11		
Zinc	ppm	<u> </u>		
Phosphorus	ppm	1271		
Barium	ppm	■ <1		
Boron	ppm	125		
DOIOII	phili	<u> </u>		



ALTA EQUIPMENT COMPANY

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Diagnosis

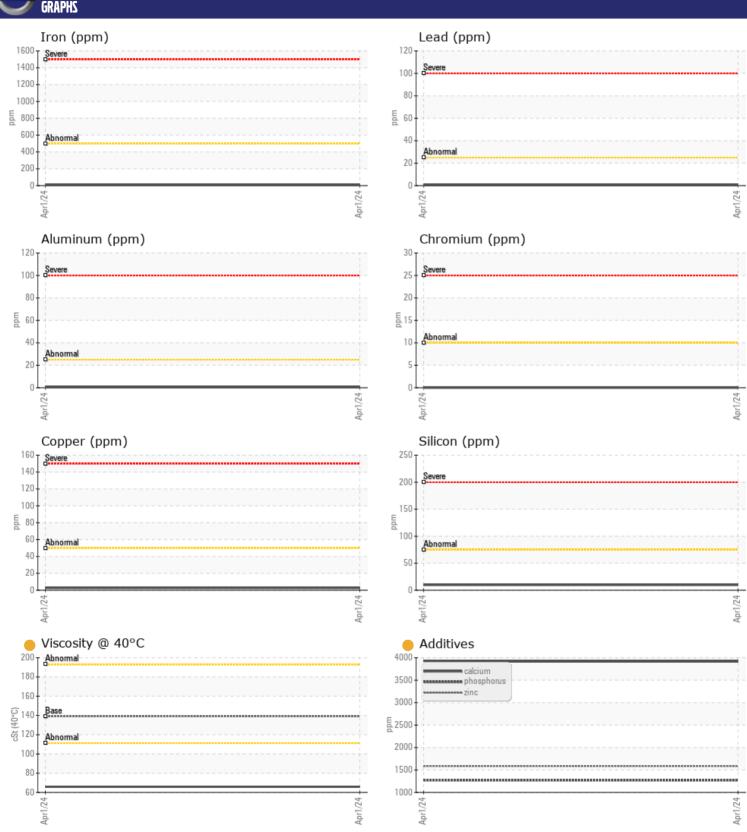
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO5054 **Unique No:** 10969495 Signed: Don Baldridge Report Date: 13 Apr 2024











CONSTRUCTION EQUIPMENT 519518 ALTER QUINCY SENNEBOGEN 825 825.0.4093 - REAR RIGHT

Sample No: VCP431485

Oil Type: SHELL SPIRAX HD 80W90 Job No: 519518 ALTER QUINCY

VOLVO CAMPIF	INFORMATIO	N		
	IIII OIIIIIA I IO			
Sample Number		VCP431485	 	
Sample Date		01 Apr 2024	 	
Machine Hours		193	 	
Oil Hours		193	 	
Oil Changed		Not Changd	 	
Sample Status		ATTENTION	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	65.6	 	
VISC @ 40 C	CSt	05.0		
VOLVO				
CONTAM	IINATION			
Water	%	NEG	 	
Silicon	ppm	10	 	
Sodium	ppm	15	 	
Potassium	ppm	■0	 	
VOLVO	ETALC			
WEAR M	F1YT7			
Iron	ppm	■8	 	
Copper	ppm	■ 3	 	
Lead	ppm	0	 	
Tin	ppm	■0	 	
Aluminum	ppm	■<1	 	
Chromium	ppm	■ 0	 	
Molybdenum	ppm	0	 	
Nickel	ppm	■ 0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	_ <1	 	
VOLVO	re		 	
ADDITIV	F7			
Calcium	ppm	3451	 	
Magnesium	ppm	10	 	
Zinc	ppm	1361	 	
Phosphorus	ppm	1064	 	
Barium	ppm	■ <1	 	
Boron	ppm	111	 	



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 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: VOLVO5054 **Unique No:** 10969516 Signed: Don Baldridge Report Date: 13 Apr 2024







