

SPM716242 RENTAL VOLVO A45G 352584 - DIESEL ENGINE

Sample No: VCP452534

Fuel

Silicon

Sodium

Potassium

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: SPM716242 RENTAL

%

ppm

ppm

ppm

<1.0

■9

2

2

VOLVO					
	NFORMATION				
Sample Number	-	VCP452534	VCP339423	VCP345359	VCP314262
Sample Date		16 May 2024	28 Jan 2022	08 Nov 2021	25 Jun 2021
Machine Hours		7880	1998	1513	482
Oil Hours		0	0	0	0
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	ATTENTION
OIL CONDI	TION				
Visc @ 100°C	cSt	13.1	12.7	■ 13.2	10.8
Base Number (BN)	mg KOH/g	7.2	■9.2		
Oxidation (PA)	%	60	63	60	88
CONTAMIN	NATION				
Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.7	■0.6	■ 0.5	■ 0.5
Nitration (PA)	%	69	73	57	67
Sulfation (PA)	%	55	58	57	70
Glycol	%	NEG	NEG	NEG	NEG

WEAR METALS									
Iron	ppm	17	1 1	■9	■33				
Copper	ppm	■ 5	■35	■88	4 4				
Lead	ppm	2	2	< 1	2				
Tin	ppm	1	1	- <1	7				
Aluminum	ppm	5	2	□ 0	2				
Chromium	ppm	■<1	- <1	- <1	□1				
Molybdenum	ppm	57	6 1	5 9	4 4				
Nickel	ppm	■<1	1	- <1	2				
Titanium	ppm	10	< 1	0	< 1				
Silver	ppm	■<1	■0	- <1	□0				
Manganese	ppm	■<1	< 1	- <1	2				
Vanadium	ppm	<1	0	0	0				

< 1.0

4

_2

- < 1

< 1.0

4

0

- < 1

0.4

38

4

1

ADDITI	VES				
Calcium	ppm	1313	■1150	1133	1613
Magnesium	ppm	973	□1024	■934	□478
Zinc	ppm	1351	1271	1153	1112
Phosphorus	ppm	1152	1102	■1032	□919
Barium	ppm	0	□0	0	0
Boron	ppm	6	4	3	5 2



ALTA EQUIPMENT CO - ORLAND PARK

5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: MARK DEROSA
mark.derosa@altg.com
T: (248)356-5200
F:

Diagnosis

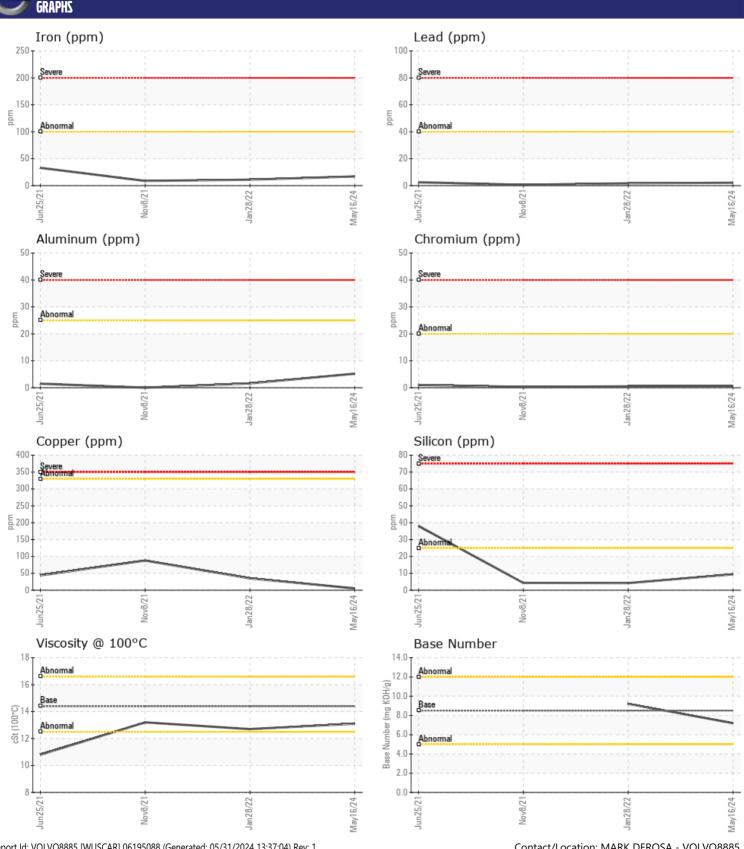
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:VOLVO8885Unique No:11057211Signed:Wes DavisReport Date:31 May 2024









Oil Type: VOLVO AUTOMATIC TRANSMISSION FLUID AT102

Job No: SPM716242 RENTAL

LINEODMATION				
				_
	VCP452533	VCP342869	VCP345355	
	16 May 2024	28 Jan 2022	08 Nov 2021	
	7880	1998	1513	
	0	0	0	
	Changed	Changed	Not Changd	
	NORMAL	NORMAL	NORMAL	
INITION				
cSt	■33.0	27.6	47.8	
MINATION				
	NEG	NEG	NEG	
ррпп			I	
METALS				
ppm	■21	2 2	□15	
ppm	15	■32	■20	
ppm	-<1	- <1	□0	
ppm	■ 3	4	2	
ppm	15	1 2	■8	
ppm	■ 0	0	□0	
ppm	0	- <1	- <1	
ppm	2	5	■3	
ppm	0	0	0	
ppm	■ 0	- <1	<1	
ppm		2	2	
ppm	<1	0	0	
15				
ppm	■38	■82	7 6	
ppm	■<1	- <1	< 1	
ppm	■ 4	5	6	
ppm	222	200	173	
ppm	■ 0	0	0	
	DITION cSt MINATION % ppm ppm ppm ppm ppm ppm ppm	7880 0 Changed NORMAL DITION cSt	VCP452533	VCP452533 VCP342869 VCP345355 16 May 2024 28 Jan 2022 08 Nov 2021 7880 1998 1513 0



ALTA EQUIPMENT CO - ORLAND PARK

5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: MARK DEROSA mark.derosa@altg.com T: (248)356-5200

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:VOLVO8885Unique No:11057947Signed:Don BaldridgeReport Date:02 Jun 2024

ppm

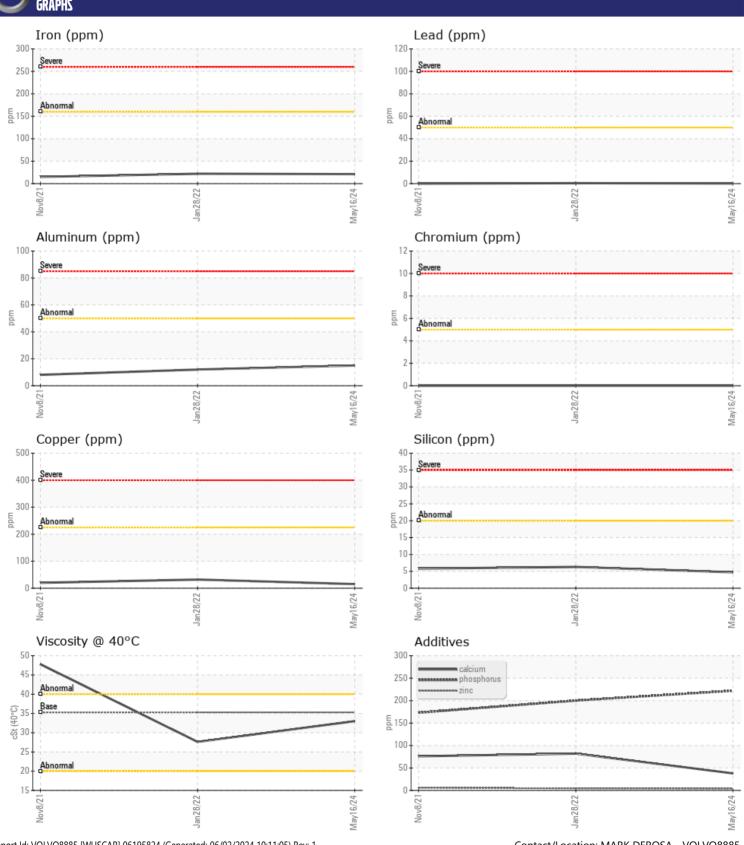
104

Boron











Oil Type: VOLVO WET BRAKE TRANSAXLE OIL

Job No: SPM716242 RENTAL

CVMDIE	INFORMATION			
	. INFURMATION			
Sample Number		VCP452718	VCP342871	
Sample Date		16 May 2024	28 Jan 2022	
Machine Hours		7880	1998	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		NORMAL	ABNORMAL	
OIL CON	DITION			
Visc @ 40°C	cSt	49.7	41.1	
VOLVO				
CONTAN	MINATION			
Water	%	NEG	NEG	
Silicon	ppm	■16	19	
Sodium		4	1 11	
	ppm	2	1	
Potassium	ppm	<u> </u>	I	
VOLVO				
WEAR M	METALS			
Iron	ppm	■31	1 47	
Copper	ppm	45	<u> </u>	
Lead	ppm	1 <1	- <1	
Tin	ppm	<1	- <1	
Aluminum	ppm	2	1 2	
Chromium	ppm	■<1	1	
Molybdenum	ppm	1 <1	- <1	
Nickel	ppm	2	6	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	■<1	1 2	
Vanadium	ppm	<1	0	
Variadidili	ррш	``	U	
VOLVO				
ADDITIV	FZ			
Calcium	ppm	■3388	■3972	
Magnesium	ppm	■20	1 4	
Zinc	ppm	■1473	■1636	
Phosphorus	ppm	1180	1389	
Barium	ppm	<u> </u>	<u> </u>	
Boron	ppm	100	115	
		-		



ALTA EQUIPMENT CO - ORLAND PARK 5000 INDUSTRIAL HWY

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US 46406
Contact: DAVE ENG
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T: (312)350-2560
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.

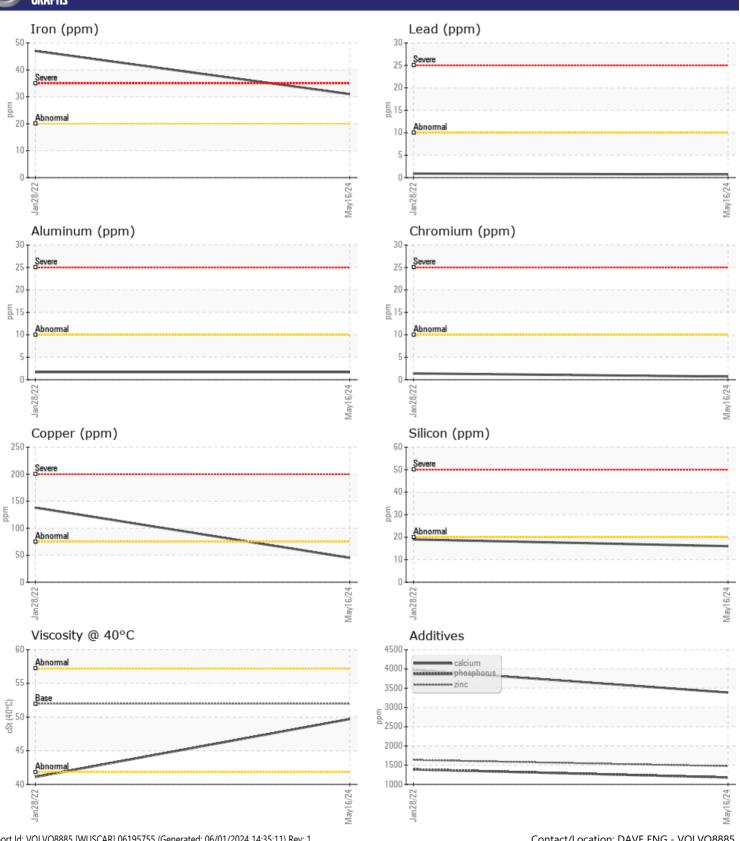
Depot:VOLVO8885Unique No:11057878Signed:Don BaldridgeReport Date:01 Jun 2024

Contact/Location: DAVE ENG - VOLVO8885









Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No: SPM716242 RENTAL

SAMPLE IN	NFORMATION					
Sample Number	-	VCP452719	VCP342867	VCP345357	VCP334843	
Sample Date		16 May 2024	28 Jan 2022	08 Nov 2021	27 Sep 2021	
Machine Hours		7880	1998	1513	1269	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Not Changd	Not Changd	
Sample Status		NORMAL	NORMAL	NORMAL	ATTENTION	
OIT CONDI.	TION					
Visc @ 40°C	cSt	44.5	44.4	43.9	43.9	
Acid Number (AN)	mg KOH/g	■ 0.37	■ 0.365	□ 0.247	■ 0.480	
CONTAMINATION						

CONTAMINATION									
Water	%	NEG	NEG	NEG	NEG				
Particles >4µm		2748	7294	2607	71309				
Particles >6µm		185	1206	554	7343				
Particles >14µm		■ 9	5 4	2 0	■50				
ISO 4406:1999 (c))	19/15/10	20/17/13	19/16/11	23/20/13				
Silicon	ppm	6	7	6	6				
Sodium	ppm	0	0	- <1	< 1				
Potassium	ppm	■<1	- <1	□ 0	0				

VOLVO					
WEAR N	METALS				
Iron	ppm	5	■10	■9	■ 8
Copper	ppm	2	5	5	5
Lead	ppm	■<1	1	< 1	- <1
Tin	ppm	■<1	- <1	□ 0	0
Aluminum	ppm	■ <1	□ 0	< 1	- <1
Chromium	ppm	■<1	2	2	2
Molybdenum	ppm	■<1	< 1	■0	0
Nickel	ppm	■ 0	■0	■ 0	■0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	< 1	■0	0
Vanadium	ppm	0	0	0	0

ADDITIV	ZES				
Calcium	ppm	550	5 6	5 5	5 3
Magnesium	ppm	11	1	0	□0
Zinc	ppm	270	425	415	436
Phosphorus	ppm	249	■340	■323	□324
Barium	ppm	■ 0	0	0	0
Boron	ppm	16	2	■0	0



ALTA EQUIPMENT CO - ORLAND PARK

5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: MARK DEROSA mark.derosa@altg.com T: (248)356-5200 F:

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.

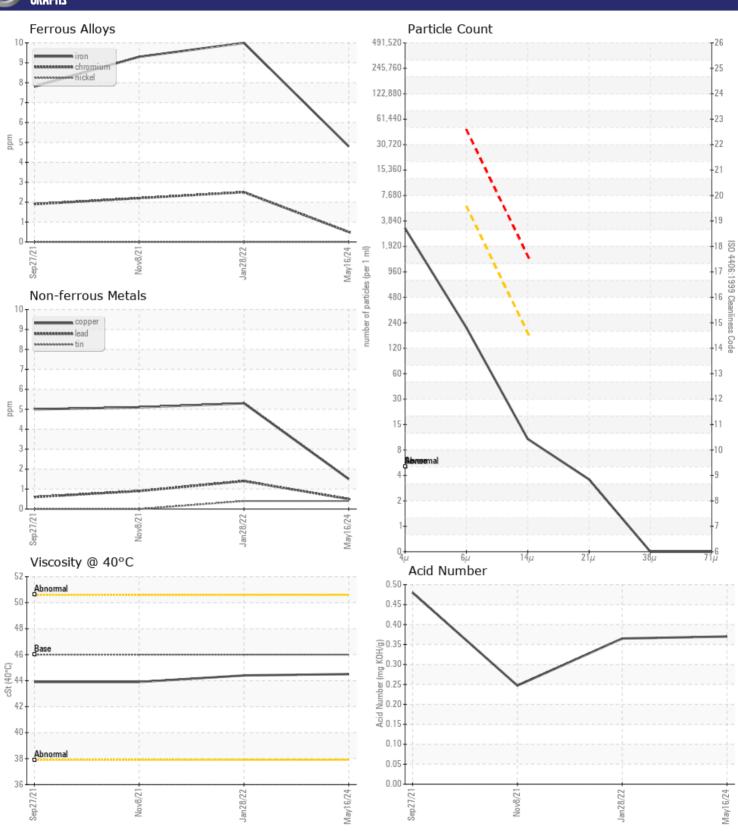
Depot:VOLVO8885Unique No:11057462Signed:Don BaldridgeReport Date:01 Jun 2024







GRAPHS



Report Id: VOLVO8885 [WUSCAR] 06195339 (Generated: 06/01/2024 10:28:12) Rev: 1

Contact/Location: MARK DEROSA - VOLVO8885



CONSTRUCTION EQUIPMENT SPM716242 VOLVO A45G 352584 - FRONT AXLE



Sample No: VCP452720

Oil Type: GEAR OIL SAE 80W90

Job No: SPM716242

SAMPLE	INFORMATION				
Sample Number		VCP452720	VCP339422	VCP345354	
Sample Date		16 May 2024	28 Jan 2022	08 Nov 2021	
Machine Hours		7880	1998	1513	
Oil Hours		0	0	0	
Oil Changed		Changed	Not Changd	Not Changd	
Sample Status		ATTENTION	ATTENTION	ABNORMAL	
OIL CON	DITION				
Visc @ 40°C	cSt	95.4	51.9	52.0	
VOLVO					
CONTAN	MINATION				
Water	%	NEG	NEG	NEG	
Silicon	ppm	1423	13	■4	
Sodium	ppm	1	1 9	3	
Potassium	ppm	<u>2</u>	<1	4	
Ottossium	PPIII				
VOLVO	477016				
WEAR M	NE I ALS				
Iron	ppm	159	5 1	248	
Copper	ppm	■<1	- <1	2	
Lead	ppm	■ 0	- <1	0	
Tin	ppm	■<1	- <1		
Aluminum	ppm	■<1	1		
Chromium	ppm	■1	2	3	
Molybdenum	ppm	1	1	7	
Nickel	ppm	■ <1	- <1	1	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	<1	
Manganese	ppm	2	3	1 0	
Vanadium	ppm	<1	0	0	
VOLVO					
ADDITIV	/ES				
Calcium	ppm	256	4575	1 09	
Magnesium	ppm	1 7	20	2	
Zinc	ppm	126	1754	4 9	
Phosphorus	ppm	■ 570	1447	2362	
Barium	ppm	■ 0	0	0	
Boron	ppm	13	1 36	□ 254	
		-			



ALTA EQUIPMENT CO - ORLAND PARK 5000 INDUSTRIAL HWY GARY, IN US 46406 Contact: DAVE ENG DAVE.ENG@ALTG.COM

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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.

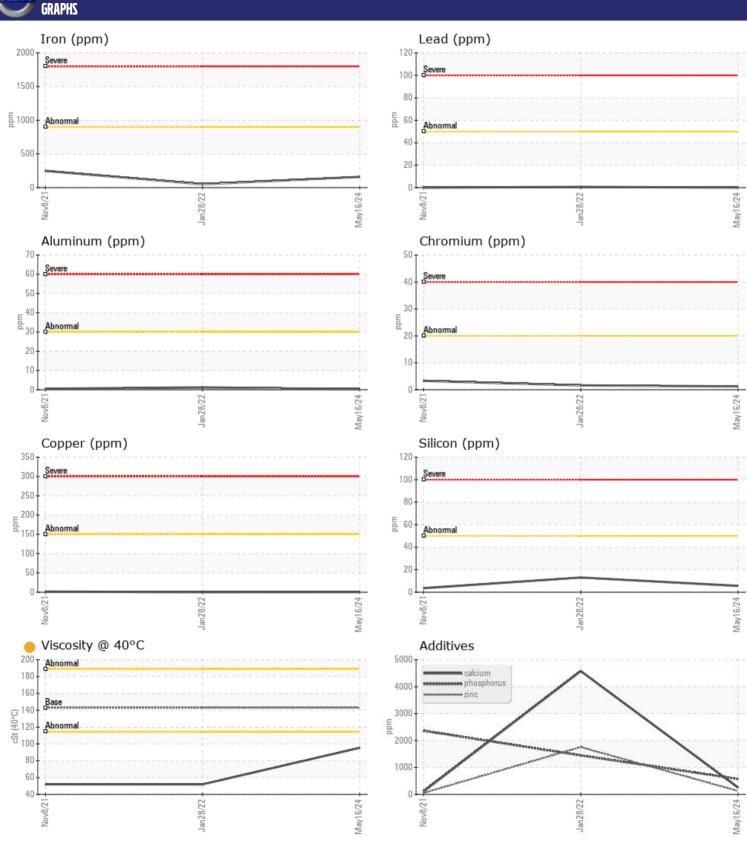
Depot:VOLVO8885Unique No:11057874Signed:Don BaldridgeReport Date:01 Jun 2024

Contact/Location: DAVE ENG - VOLVO8885











Oil Type: GEAR OIL SAE 80W90

Job No: SPM716242 RENTAL

SAMPLE	INFORMATION				
Sample Number		VCP452717	VCP339424	VCP345358	
Sample Date		16 May 2024	28 Jan 2022	08 Nov 2021	
Machine Hours		7880	1998	1513	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Not Changd	
Sample Status		ATTENTION	NORMAL	ABNORMAL	
VOLVO OIL CON	DITION				
OIL CON					
Visc @ 40°C	cSt	95.4	52.3	54.1	
VOLVO					
CONTAN	MINATION				
Water	%	NEG	NEG	NEG	
Silicon		MEG ■3	™3	MEG ■4	
Sodium	ppm	<u> </u>	■ <1	_	
Potassium	ppm	2	3	■3 ■2	
Potassium	ppm	<u> </u>	3		
VOLVO					
WEAR N	METALS				
Iron	ppm	125	□194	251	
Copper	ppm	-<1	2	2	
Lead	ppm	0		- <1	
Tin	ppm	■<1	- <1	- <1	
Aluminum	ppm	0	0	- <1	
Chromium	ppm	1	2	3	
Molybdenum	ppm	■<1	5	1 0	
Nickel	ppm	■<1	1	1	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	<1	
Manganese	ppm	2	■8	1 1	
Vanadium	ppm	<1	0	0	
ADDITIV	/ES				
Calcium	ppm	76	155	138	
Magnesium	ppm	2	3	2	
Zinc	ppm	■50	1 74	6 3	
Phosphorus	ppm	460	2624	2378	
Barium	ppm	■ <1	□0	0	
Boron	ppm	■5	228	□ 249	
	- - · · ·				



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

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F:

Diagnosis

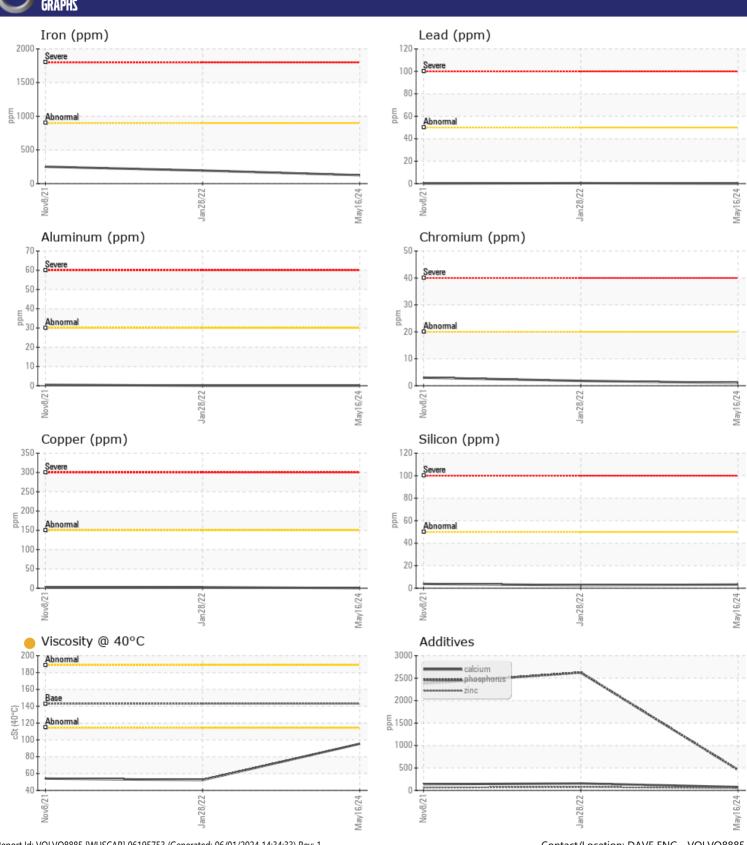
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot:VOLVO8885Unique No:11057876Signed:Don BaldridgeReport Date:01 Jun 2024











CONSTRUCTION EQUIPMENT SPM716242 RENTAL VOLVO A45G 352584 - REAR AXLE



Sample No: VCP452716

Oil Type: GEAR OIL SAE 80W90 **Job No:** SPM716242 RENTAL

CAMDIE	INFORMATION				
	. INI UNITATION		1400000405		_
Sample Number		VCP452716	VCP339425	VCP345360	
Sample Date		16 May 2024	28 Jan 2022	08 Nov 2021	
Machine Hours		7880	1998	1513	
Oil Hours		0	0	0	
Oil Changed		Changed	Changed	Not Changd	
Sample Status		ATTENTION	ABNORMAL	ABNORMAL	
OIL CON	DITION				
Visc @ 40°C	cSt	98.5	53.7	53.6	
VISC @ 40 C	CSL	96.5	55.7	55.0	
VOLVO					
CONTAN	MINATION				
Water	%	NEG	NEG	NEG	
Silicon	ppm	4	2	■ 3	
Sodium	ppm	<1	<1	<u> </u>	
Potassium	ppm	2	5	5	
				_	
VOLVO	AFTALC				
WEAR M	NETALS				
Iron	ppm	41	199	212	
Copper	ppm	■<1	1	1	
Lead	ppm	0	< 1	0	
Tin	ppm	■<1	- <1	<1	
Aluminum	ppm		< 1	< 1	
Chromium	ppm	■<1	2	■3	
Molybdenum	ppm	■<1	1 0	1 1	
Nickel	ppm	■0	1	<1	
Titanium	ppm	0	0	0	
Silver	ppm	0	0	<1	
Manganese	ppm	-<1	7	■8	
Vanadium	ppm	<1	0	0	
ADDITIV	/FS				
_		=122	E 72	P 61	
Calcium	ppm	122	72	6 1	
Magnesium	ppm	3	2	2	
Zinc	ppm	■ 60	■33	2 9	
Phosphorus	ppm	■477	2567	2377	
Barium	ppm	0	0	0	
Boron	ppm	■ 3	248	268	



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

US 46406 Contact: DAVE ENG DAVE.ENG@ALTG.COM T: (312)350-2560

F:

Diagnosis

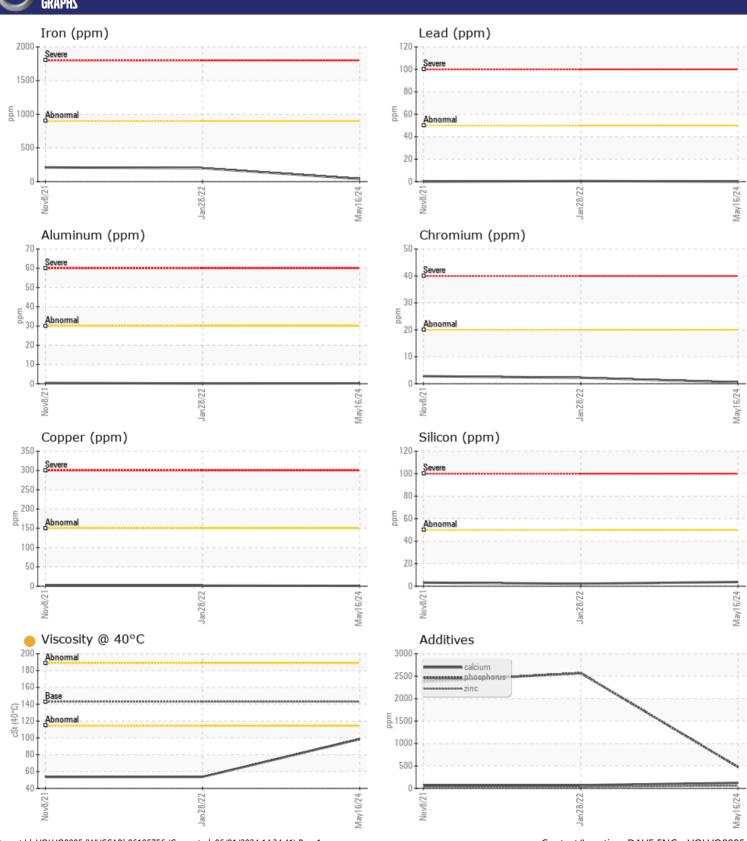
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot:VOLVO8885Unique No:11057879Signed:Don BaldridgeReport Date:01 Jun 2024











CONSTRUCTION EQUIPMENT SPM716242 RENTAL VOLVO A45G 352584 - DROP BOX



Sample No: VCP452713

Oil Type: GEAR OIL SAE 80W90 **Job No:** SPM716242 RENTAL

VOLVO CAMDI	E INFORMATION			
				 _
Sample Number		VCP452713	VCP342873	
Sample Date		16 May 2024	28 Jan 2022	
Machine Hours		7880	1998	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		ATTENTION	ATTENTION	
VOLVO				
OIL CON	IDITION			
Visc @ 40°C	cSt	79.5	47.66	
V13C @ 40 C	CSt	75.5	47.00	
VOLVO				
CONTAI	MINATION			
Water	%	NEG	NEG	
Silicon	ppm	21	5	
Sodium	ppm	2	1 0	
Potassium	ppm	3	- <1	
VOLVO	METALC			
WEAR	METALS			
Iron	ppm	61	128	
Copper	ppm	2	0	
Lead	ppm	0	- <1	
Tin	ppm	■<1	- <1	
Aluminum	ppm	1	< 1	
Chromium	ppm	■<1	2	
Molybdenum	ppm	4	0	
Nickel	ppm	■0	- <1	
Titanium	ppm	<1	0	
Silver	ppm	0	0	
Manganese	ppm	-<1	■ 3	
Vanadium	ppm	<1	0	
ADDITI	VFC			
_	-	=4000	- 4F	
Calcium	ppm	1893	15	
Magnesium	ppm	56	0	
Zinc	ppm	796	- <1	
Phosphorus	ppm	1310	■358	
Barium	ppm	■0	0	
Boron	ppm	121	0	



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

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F:

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.

Depot:VOLVO8885Unique No:11057875Signed:Don BaldridgeReport Date:01 Jun 2024

Contact/Location: DAVE ENG - VOLVO8885







