

CONSTRUCTION EQUIPMENT VOLVO EC300ELR 314370 - COOLANT



Sample No: VCP354203

Oil Type: VOLVO COOLANT VCS (YELLOW)

Job No:

SAMPLE IN	FORMATION			
Sample Number	-	VCP354203	VCP306998	
Sample Date		06 Jun 2022	23 Mar 2021	
Machine Hours		992	456	
Sample Status		NORMAL	NORMAL	
COOLANT	CONDITION			
рН	Scale 0-14	7.94	■8.10	
Reserve Alkalinity	Scale 0-20			
Nitrites	ppm	■ NT	0	
Percentage Glycol	%	44.5	4 5	
Freezing Point	°C	□ -21	<u>-25</u>	
CONTAMIN	IATION	ļ		
Coolant Appearance		normal	normal	
Coolant Color		Yllow	Green	



ALTA EQUIPMENT
5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
Contact: JIM STRIGLE
JIM.STRIGLE@ALTG.COM
T: (315)437-2611
F: (315)434-9471

Diagnosis

The fluid is suitable for further service. There is no indication of any contamination in the coolant. The carboxylate level of this fluid is acceptable. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

Depot:VOLVO0142Unique No:10047252Signed:Jonathan HesterReport Date:13 Jul 2022

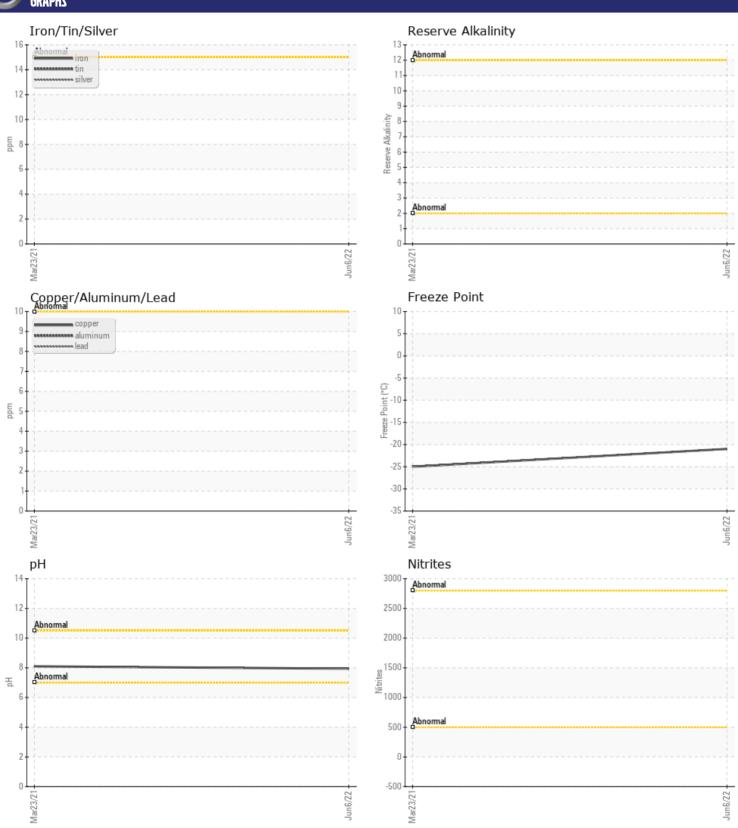
Contact/Location: JIM STRIGLE - VOLVO0142







GRAPH





CONSTRUCTION EQUIPMENT 354477 VOLVO EC300ELR 314370 - DIESEL ENGINE



Sample No: VCP415960

Oil Type: DIESEL ENGINE OIL SAE 40

Job No: 354477

SAMPLE II	NFORMATION				
Sample Number		VCP415960	VCP375791	VCP306994	
Sample Date		07 Sep 2023	06 Jun 2022	23 Mar 2021	
Machine Hours		1625	99	456	
Oil Hours		0	0	0	
Oil Changed		Changed	N/A	Changed	
		NORMAL	NORMAL	NORMAL	
Sample Status		NORWAL	NORIVIAL	NORIVIAL	
VOLVO					
OIL CONDI	TION				
Visc @ 100°C	cSt	12.9	12.9	12.9	
Base Number (BN)	mg KOH/g	■9.5	10.1		
Oxidation (PA)	%	79	73	46	
CONTAMI	NATION				
CONTAMIN					
Soot %	%	■ 0.2	□0.1	□ 0.1	
Nitration (PA)	%	63	67	63	
Sulfation (PA)	%	60	59	53	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	■ 8	■8	□13	
Sodium	ppm	■ 3	2	■3	
Potassium	ppm	10	3	3	
WEAR ME	ZIAT				
Iron		11	1 0	1 2	
	ppm	4	6	_	
Copper	ppm	1	1	□15 □2	
Lead Tin	ppm	<u> </u>	2	<u>2</u>	
Aluminum	ppm	7	3	2	
Chromium	ppm	■ / ■ <1	■ < 1	■ < 1	
Molybdenum	ppm	■ 54	1 40	<u></u> 5	
Nickel	ppm	■ 54 ■ <1	2	6	
Titanium	ppm	_	□ < 1	□ < 1	
Silver	ppm	■ <1	<1	<1	
	ppm	■ 1	<1 <1	T 2	
Manganese	ppm	0	_	0	
Vanadium	ppm	U	0	U	

1584

527

1019

851

0

53



ALTA EQUIPMENT 5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JIM STRIGLE JIM.STRIGLE@ALTG.COM T: (315)437-2611 F: (315)434-9471

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Elevated aluminum (AI) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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:VOLVO0142Unique No:10643011Signed:Wes DavisReport Date:12 Sep 2023

1955

281

1061

977

0

1787

573

957

0

43

1234

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

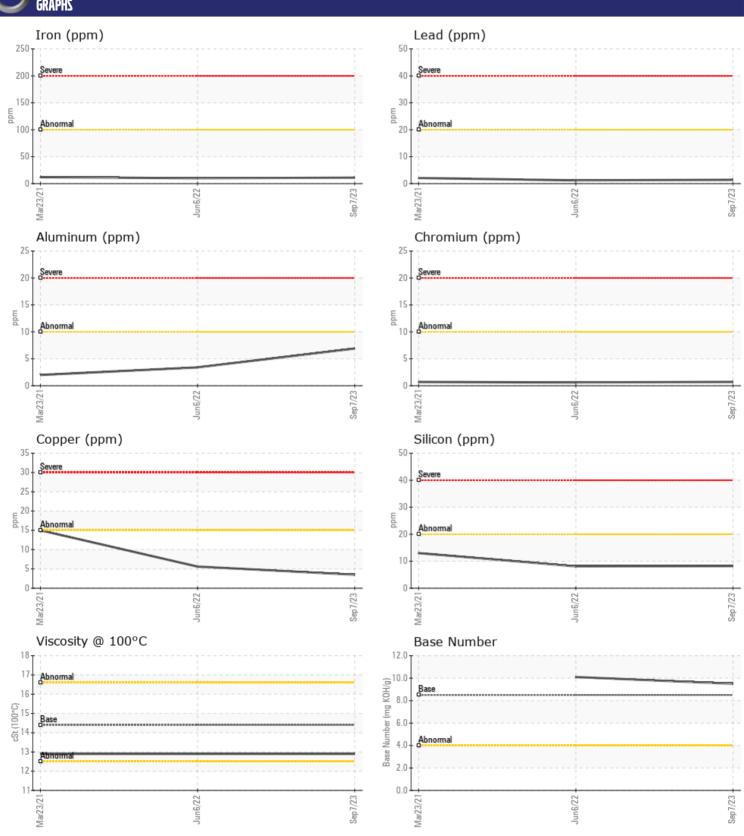
Magnesium

Phosphorus











354477 VOLVO EC300ELR 314370 - HYDRAULIC SYSTEM



Oil Type: AW HYDRAULIC OIL ISO 46

Job No: 354477



0

415

373

0

0

492

382

0



ALTA EQUIPMENT 5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JIM STRIGLE JIM.STRIGLE@ALTG.COM T: (315)437-2611 F: (315)434-9471

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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:VOLVO0142Unique No:10643171Signed:Don BaldridgeReport Date:13 Sep 2023

ppm

ppm

ppm

ppm

ppm

Magnesium

Phosphorus

Zinc

Barium

Boron

■0

353

404

0

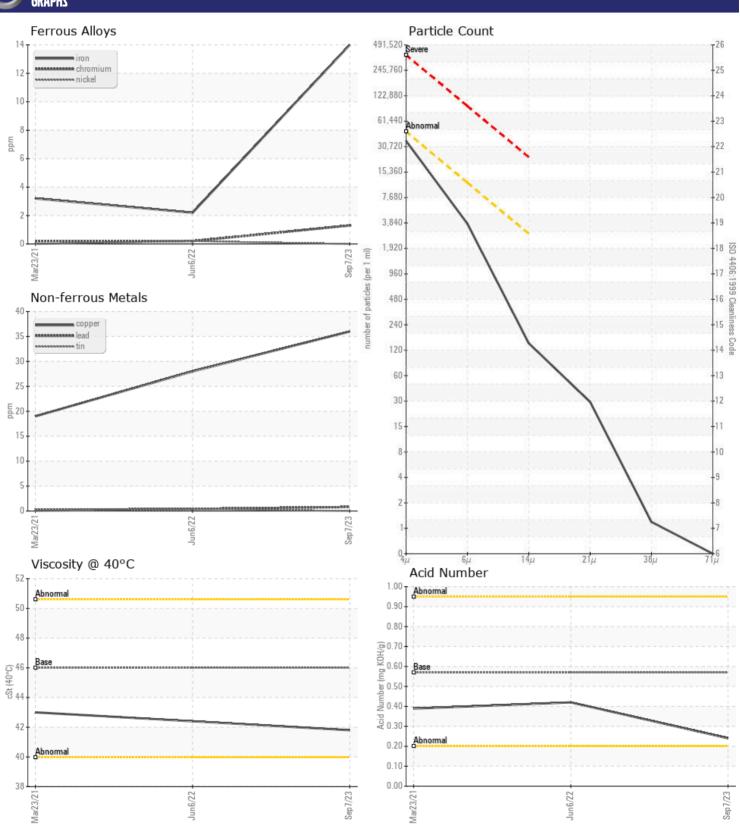
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GRAPHS





CONSTRUCTION EQUIPMENT VOLVO EC300ELR 314370 - SWING DRIVE



Sample No: VCP356672

Oil Type: GEAR OIL SAE 80W90

Job No:

SAMPLE	INFORMATION			
Sample Number		VCP356672		
Sample Date		06 Jun 2022		
Machine Hours		992		
Oil Hours		0		
Oil Changed		N/A		
Sample Status		NORMAL		
VOLVO	DITION			
OIL CON			<u> </u>	
Visc @ 40°C	cSt	161		
VOLVO				
CONTAN	MINATION			
Water	%	NEG		
Silicon		MEG ■ 15		
Sodium	ppm	■ <1		
Potassium	ppm	■<1 ■<1		
FOLASSIUITI	ppm			
VOLVO				
WEAR N	METALS			
Iron	ppm	■341		
Copper	ppm	■ 9		
Lead	ppm	■ <1		
Tin	ppm	<1		
Aluminum	ppm	2		
Chromium	ppm	3		
Molybdenum	ppm			
Nickel	ppm	<1		
Titanium	ppm	0		
Silver	ppm	0		
Manganese	ppm	6		
Vanadium	ppm	0		
VOLVO				
ADDITIV	/ES			
Calcium	ppm	13		
Magnesium	ppm	2		
Zinc	ppm	■24		
Phosphorus	ppm	490		
Barium	ppm	■ <1		
Boron	ppm	6		
	P			



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5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
Contact: JIM STRIGLE
JIM.STRIGLE@ALTG.COM
T: (315)437-2611
F: (315)434-9471

Diagnosis

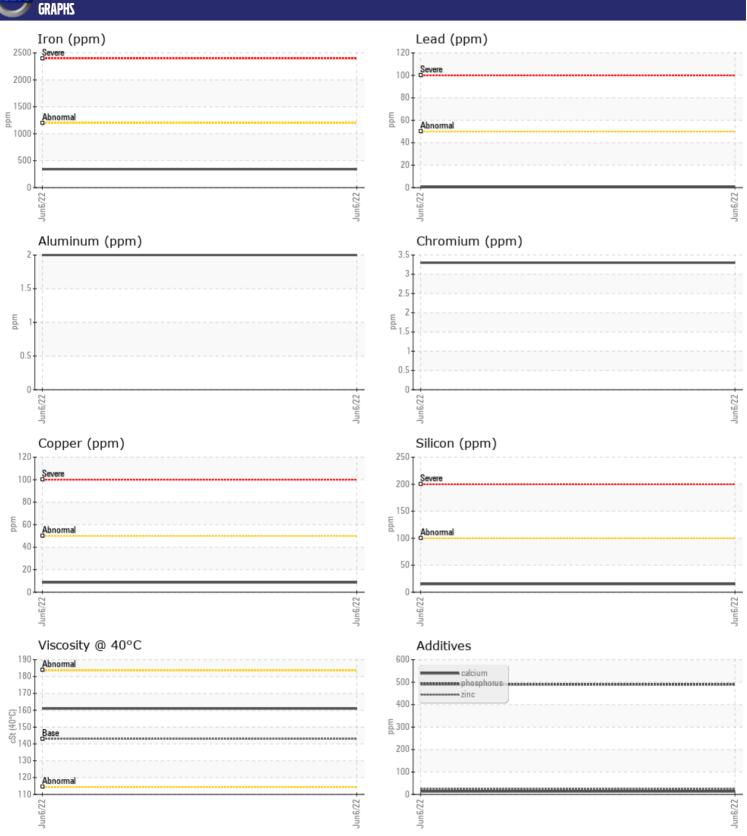
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0142Unique No:10047186Signed:Don BaldridgeReport Date:12 Jul 2022











354477 VOLVO EC300ELR 314370 - FRONT LEFT FINAL DRIVE

Sample No: VCP415959

Oil Type: GEAR OIL SAE 80W90

Job No: 354477

VOLVO				
SAMPLI	E INFORMATION			
Sample Number	•	VCP415959	VCP353925	
Sample Date		07 Sep 2023	06 Jun 2022	
Machine Hours		1625	992	
Oil Hours		0	0	
Oil Changed		Not Changd	N/A	
Sample Status		ABNORMAL	NORMAL	
OIL CON	IDITION			
Visc @ 40°C	cSt	142	■ 146	
VOLVO				
CONTAI	MINATION			
Silicon	ppm	<u></u> 178	1 74	
Sodium	ppm	4	2	
Potassium	ppm	19	1 2	
WEAR	METALS			
Iron	ppm	■394	■210	
Copper	ppm	■ 0	- <1	
Lead	ppm	■0		
Tin	ppm	■<1	0	
Aluminum	ppm	<u></u> 4 33	2 2	
Chromium	ppm	■ 12	7	
Molybdenum	ppm		- <1	
Nickel	ppm	■ <1	<1	
Titanium	ppm	3	2	
Silver	ppm	0	<1	
Manganese	ppm	■5	3	
Vanadium	ppm	0	0	
VOLVO				
ADDITIV	VES			
Calcium	ppm	■382	■289	
Magnesium	ppm	■ 17	1 6	
Zinc	ppm	■ 74	□14	
Phosphorus	ppm	■993	■866	
Barium	ppm	0	- <1	
Boron	ppm	169	130	



ALTA EQUIPMENT 5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JIM STRIGLE JIM.STRIGLE@ALTG.COM T: (315)437-2611

Diagnosis

F: (315)434-9471

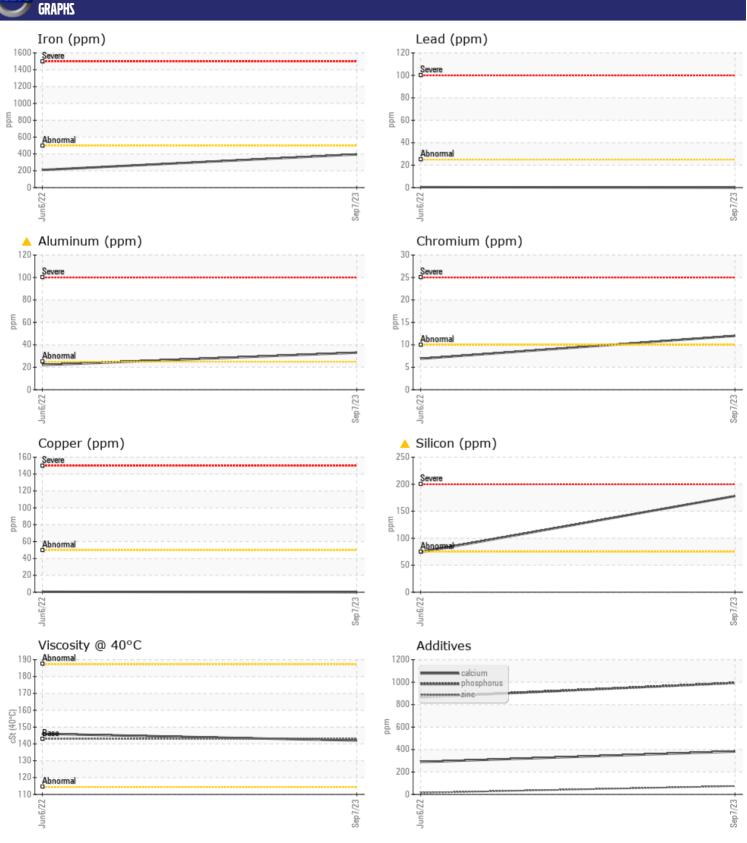
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0142Unique No:10643525Signed:Sean FeltonReport Date:13 Sep 2023











Sample No: VCP416504
Oil Type: NOT GIVEN
Job No: 354477

INFORMATION				
•	VCP416504	VCP354185		
	07 Aug 2023	06 Jun 2022		
	1625	992		
	0	0		
	Not Changd	N/A		
	ABNORMAL	ABNORMAL		
DITION				
	146	m146		
CSL	140	<u> </u>		
IINATION				
ppm	▲ 179	<u></u> 215		
ppm	4	4		
ppm	22	2 9		
IETALS				
ppm	498	■341		
ppm	■0	- <1		
ppm	■0	- <1		
ppm	■0	- <1		
ppm	△ 30	6 9		
ppm	11	■8		
ppm	<1	<1		
ppm	■<1	<1		
ppm	3	4		
ppm	0	<1		
ppm	6	5		
ppm	0	<1		
ES				
ppm	331	605		
	24	35		
ppm	47			
ppm	15	24		
		24 852		
ppm	15			
	DITION cSt IINATION ppm ppm ppm ppm ppm ppm ppm ppm ppm p	O7 Aug 2023 1625 O	VCP416504 VCP354185 07 Aug 2023 06 Jun 2022 1625 992 0 0 Not Changd N/A ABNORMAL ABNORMAL DITION cSt 146 St 146 146 INATION 215 4 ppm 4 4 ppm 4 4 ppm 0 <1	VCP416504 VCP354185 07 Aug 2023 06 Jun 2022 1625 992 0 0 Not Changd N/A ABNORMAL ABNORMAL DITION CSt 146 146 INATION ppm 4 ppm 4 4 ppm 4 4



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5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
Contact: JIM STRIGLE
JIM.STRIGLE@ALTG.COM
T: (315)437-2611
F: (315)434-9471

Diagnosis

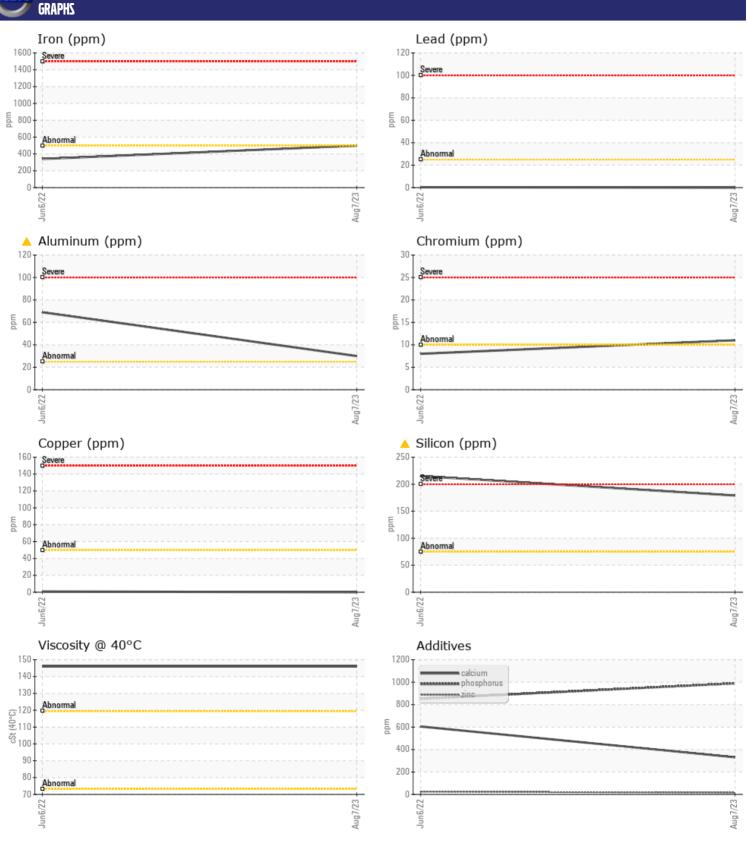
We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0142Unique No:10643524Signed:Sean FeltonReport Date:13 Sep 2023











Sample No: VCP306990

Oil Type: GEAR OIL SAE 80W90

Job No: 125395

SAMPLE	INFORMATION			
Sample Number		VCP306990	 	
Sample Date		23 Mar 2021	 	
Machine Hours		456	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
Sample Status		NUKIVIAL	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	163	 	
VOLVO	INATION			
CONTAM				
Water	%	NEG	 	
Silicon	ppm	19	 	
Sodium	ppm	2	 	
Potassium	ppm	6	 	
WEAR M	IFTAI S			
_		= 242		
Iron	ppm	■313	 	
Copper	ppm	□<1	 	
Lead	ppm	- <1	 	
Tin	ppm	0	 	
Aluminum	ppm	4	 	
Chromium	ppm	8	 	
Molybdenum	ppm		 	
Nickel	ppm	<1	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	6	 	
Vanadium	ppm	0	 	
VOLVO				
ADDITIV	ES			
Calcium	ppm	12	 	
Magnesium	ppm	2	 	
Zinc	ppm	0	 	
Phosphorus	ppm	■ 519	 	
Barium	ppm	4	 	
Boron	ppm	4	 	
שטוטוו	ppiii		 344	



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5985 COURT STREET ROAD
SYRACUSE, NY
US 13206
Contact: JIM STRIGLE
JIM.STRIGLE@ALTG.COM
T: (315)437-2611
F: (315)434-9471

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

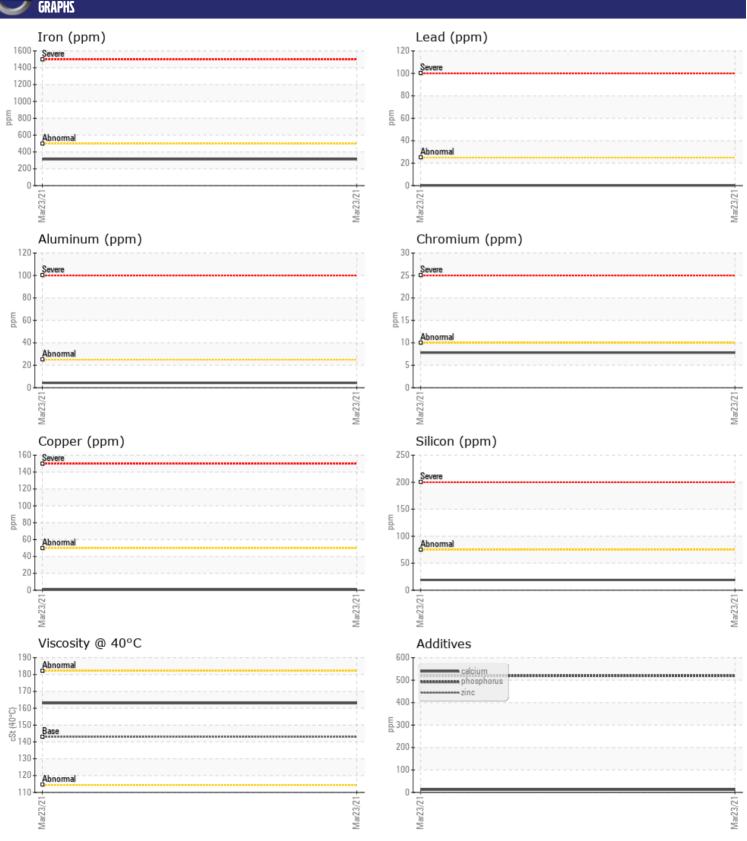
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:VOLVO0142Unique No:9440991Signed:Wes DavisReport Date:31 Mar 2021











CONSTRUCTION EQUIPMENT 125395 VOLVO EC300ELR 314370 - REAR RIGHT FINAL DRIVE

Sample No: VCP303400

Oil Type: **GEAR OIL SAE 80W90**

Job No: 125395

VOLVO	INFORMATIO	Λ		
	. INFURMATIU			
Sample Number		VCP303400	 	
Sample Date		23 Mar 2021	 	
Machine Hours		456	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	163	 	
VOLVO				
CONTAM	MINATION			
Water	%	NEG	 	
Silicon	ppm	■51	 	
Sodium	ppm	2	 	
Potassium	ppm	1 9	 	
	ρρ			
VOLVO				
WEAR M	NE I ALS			
Iron	ppm	■315	 	
Copper	ppm	■<1	 	
Lead	ppm	0	 	
Tin	ppm	■ 0	 	
Aluminum	ppm	16	 	
Chromium	ppm	■8	 	
Molybdenum	ppm	■<1	 	
Nickel	ppm	<1	 	
Titanium	ppm	1	 	
Silver	ppm	0	 	
Manganese	ppm	6	 	
Vanadium	ppm	<1	 	
ADDITIV	IES			
Calcium	ppm	26	 	
Magnesium	ppm	□ 7	 	
Zinc	ppm	0	 	
Phosphorus	ppm	■ 531	 	
Barium	ppm	5	 	
Boron	ppm	■ 8	 	



ALTA EQUIPMENT 5985 COURT STREET ROAD SYRACUSE, NY US 13206

Contact: JIM STRIGLE JIM.STRIGLE@ALTG.COM T: (315)437-2611

F: (315)434-9471

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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: VOLVO0142 **Unique No:** 9440990 Signed: Wes Davis Report Date: 31 Mar 2021







GRAPHS

