

CONSTRUCTION EQUIPMENT VOLVO EC480E 311308 - DIESEL ENGINE 310041



Sample No: VCP412947

Oil Type: **DIESEL ENGINE OIL SAE 30**

Job No: 310041

VOLVO	NEODMATION			
	INFORMATION			
Sample Number		VCP412947	 	
Sample Date		20 Aug 2023	 	
Machine Hours		2193	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL COND	ITION			
Visc @ 100°C	cSt	■11.8	 	
Base Number (BN)		6.9	 	
Oxidation (PA)	%	86	 	
VOLVO				
CONTAMI	NATION			
Soot %	%	□0.1	 	
Nitration (PA)	%	83	 	
Sulfation (PA)	%	61	 	
Glycol	%	NEG	 	
Fuel	%	MEG ■1.7	 	
Silicon				
Sodium	ppm	8	 	
	ppm	<1	 	
Potassium	ppm	■ <1	 	
VOLVO				
WEAR MI	ETALS			
Iron	ppm	7	 	
Copper	ppm	4	 	
Lead	ppm	1	 	
Tin	ppm	1	 	
Aluminum	ppm	<1	 	
Chromium	ppm	<u> </u>	 	
Molybdenum	ppm	50	 	
Nickel	ppm		 	
Titanium	ppm	■0	 	
Silver	ppm	0	 	
Manganese	ppm	■<1	 	
Vanadium	ppm	0	 	
- Carlotter	PPIII			
VOLVO	_			
ADDITIVE	7			
Calcium	ppm	1596	 	
Magnesium	ppm	436	 	
Zinc	ppm	1032	 	
Phosphorus	ppm	■850	 	
Barium	ppm	0	 	
Boron	ppm	■ 27	 	
		_		



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

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is

Diagnosis

recommended at this time. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 30. Please confirm. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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.

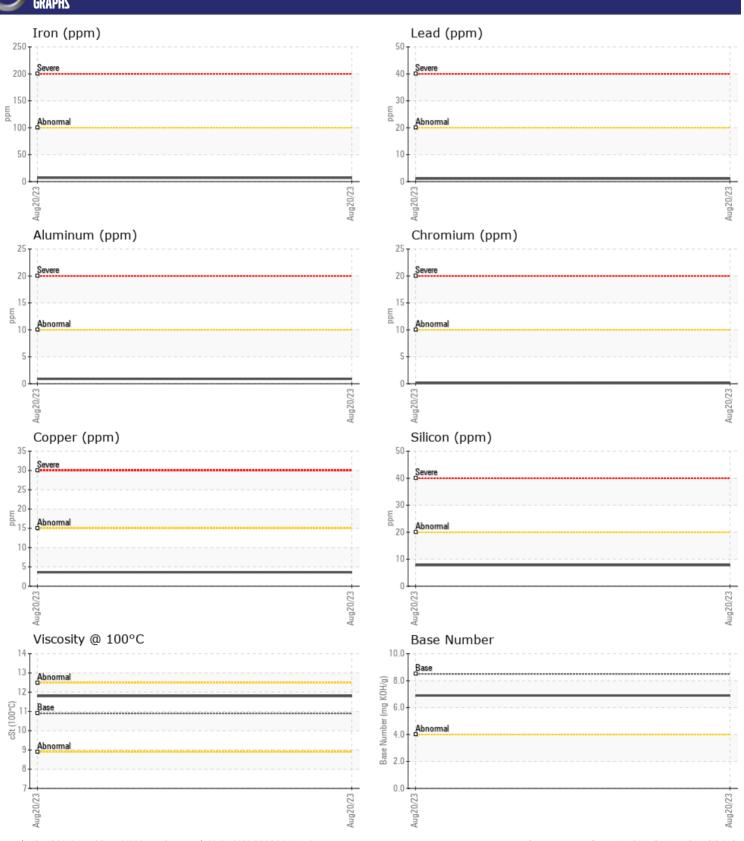
Depot: VOLVO0142 **Unique No:** 10630067 Signed: Wes Davis Report Date: 01 Sep 2023







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310041-3 VOLVO EC480E 311308 - HYDRAULIC SYSTEM

Sample No: VCP416152

Oil Type: AW HYDRAULIC OIL ISO 46

Job No: 310041-3

VOLVO CAMDI F II	NFORMATION			
	MI UNMATION	VCD446450		
Sample Number		VCP416152	 	
Sample Date		20 Aug 2023	 	
Machine Hours		2193	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
VOLVO				
OIL CONDI	TION			
Visc @ 40°C	cSt	42.1	 	
Acid Number (AN)		■ 0.47	 	
710101111111111111111111111111111111111	9, 9			
VOLVO	INTION			
CONTAMIN	NATIUN			
Particles >4µm		■23293	 	
Particles >6µm		■1884	 	
Particles >14µm		■ 60	 	
ISO 4406:1999 (c)		22/18/13	 	
Silicon	ppm	2	 	
Sodium	ppm	■ <1	 	
Potassium	ppm	1	 	
WEAR ME	ΖΑΙΣ			
_				
Iron	ppm	5	 	
Copper	ppm	■13	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm	2	 	
Molybdenum	ppm	1	 	
Nickel	ppm	■0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm		 	
Vanadium	ppm	0	 	
VOLVO			 	
ADDITIVE:	2			
Calcium	ppm	120	 	



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Diagnosis

F: (315)434-9471

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

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:VOLVO0142Unique No:10630296Signed:Wes DavisReport Date:01 Sep 2023

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■ 512 **■** 409

0

Magnesium

Phosphorus

Barium

Boron

ppm ppm

ppm

ppm

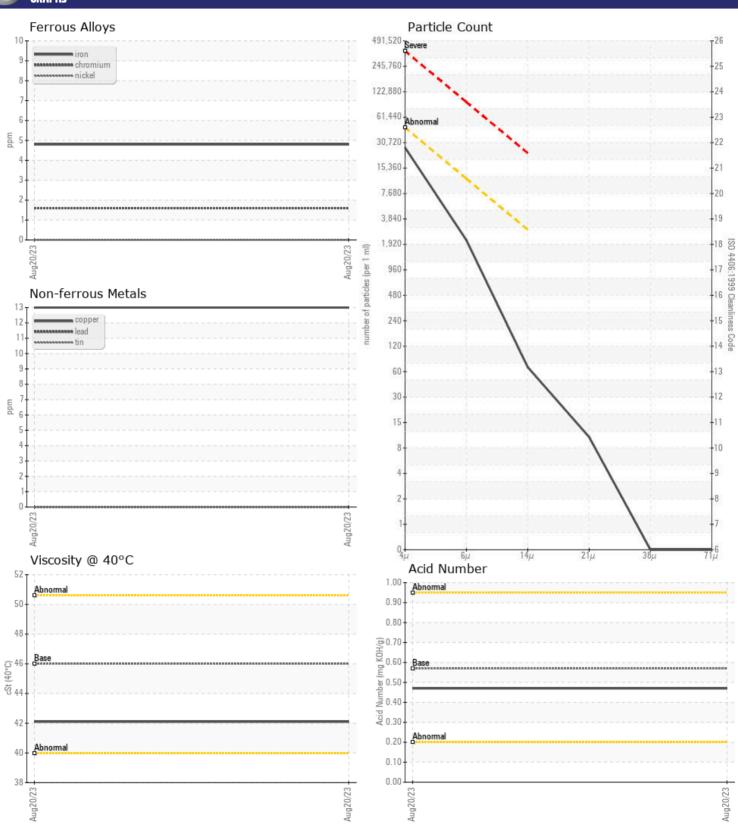
ppm







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CONSTRUCTION EQUIPMENT 310041 VOLVO EC480E 311308 - FRONT AXLE



Sample No: VCP416156

Oil Type: GEAR OIL SAE 80W90

Job No: 310041

VOLVO	INFORMATIO	7		
	INFURMATIU			
Sample Number		VCP416156	 	
Sample Date		20 Aug 2023	 	
Machine Hours		2193	 	
Oil Hours		0	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
OIL CON	NITION			
		-101	 	
Visc @ 40°C	cSt	194	 	
VOLVO				
CONTAM	IINATION			
Silicon	ppm	673	 	
Sodium	ppm	■17	 	
Potassium	ppm	■ 59	 	
rotassium	ррпп		 	
VOLVO				
WEAR M	IETALS			
Iron	ppm	1884	 	
Copper	ppm	■ 4	 	
Lead	ppm	-<1	 	
Tin	ppm	■ 0	 	
Aluminum	ppm	142	 	
Chromium	ppm	2 7	 	
Molybdenum	ppm	■3	 	
Nickel	ppm	■ 3	 	
Titanium	ppm	10	 	
Silver	ppm	0	 	
Manganese	ppm	19	 	
Vanadium	ppm	<1	 	
VOLVO	IFC			
ADDITIV	[2]			
Calcium	ppm	180	 	
Magnesium	ppm	■34	 	
Zinc	ppm	■27	 	
Phosphorus	ppm	439	 	
Barium	ppm	12	 	
Boron	ppm	■ 3	 	



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

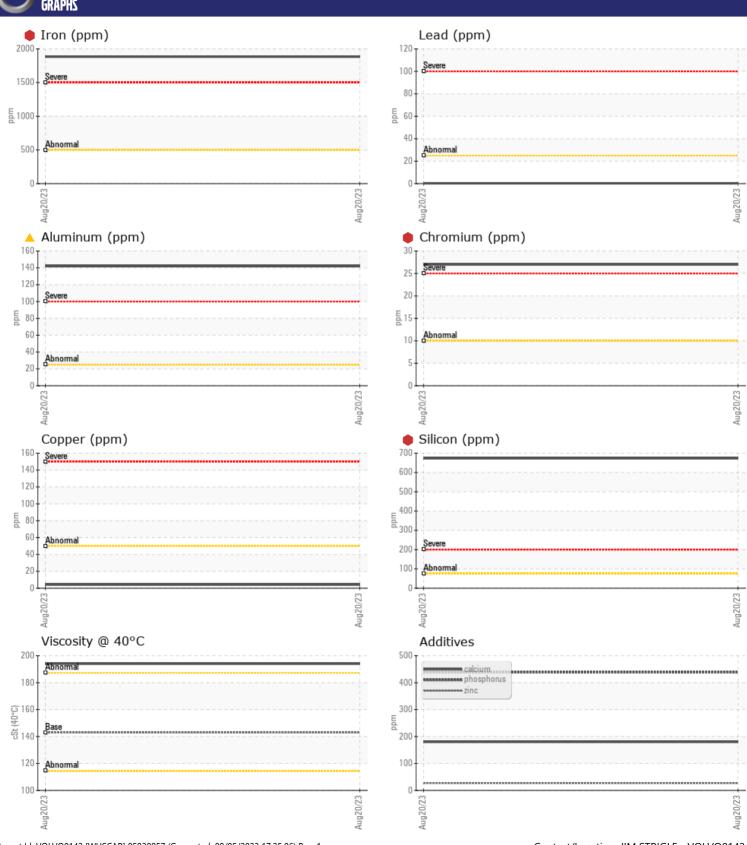
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO0142Unique No:10630569Signed:Don BaldridgeReport Date:05 Sep 2023











CONSTRUCTION EQUIPMENT 310041-3 VOLVO EC480E 311308 - REAR AXLE



Sample No: VCP416158

Oil Type: GEAR OIL SAE 80W90

Job No: 310041-3

VOLVO				
ZAMDI E	INFORMATION	V		
Sample Number		VCP416158	 	
Sample Date		20 Aug 2023	 	
Machine Hours		2193	 	
Oil Hours		O Channad	 	
Oil Changed		Changed	 	
Sample Status		SEVERE	 	
VOLVO				
OIL CON	DITION			
Visc @ 40°C	cSt	191	 	
CONTAN	IINATION			
	IINATION			
Silicon	ppm	425	 	
Sodium	ppm	10	 	
Potassium	ppm	■38	 	
VOLVO				
WEAR M	ETALS			
Iron		<u> </u>	 	
Copper	ppm	3	 	
Lead	ppm	0	 	
Tin	ppm	■0	 	
Aluminum	ppm	<u>▲</u> 89	 	
Chromium	ppm	<u> </u>	 	
Molybdenum	ppm	2	 	
Nickel	ppm	2	 	
Titanium	ppm	7	 	
Silver	ppm	0	 	
Manganese	ppm	■13	 	
Vanadium	ppm	0	 	
VOLVO	IFC .		 	
ADDITIV	E7			
Calcium	ppm	101	 	
Magnesium	ppm	■22	 	
Zinc	ppm	15	 	
Phosphorus	ppm	■405	 	
Barium	ppm	■9	 	
Boron	ppm	-<1	 	



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Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot:VOLVO0142Unique No:10630570Signed:Don BaldridgeReport Date:05 Sep 2023







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