

CONSTRUCTION EQUIPMENT 354477 VOLVO EC300ELR 314370 - DIESEL ENGINE



Sample No: VCP415960

Oil Type: DIESEL ENGINE OIL SAE 40

Job No: 354477

Nickel

Silver

Titanium

Manganese

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Sase Number (BN) mg KOH/g 9.5 10.1 Oxidation (PA) % 79 73 46 Oxidation (PA) % 79 73 46 Oxidation (PA) % 63 67 63 Sulfation (PA) % 60 59 53 Sulfation (PA) % 60 59 53 Sulfation (PA) % KEG NEG NEG NEG Fuel % <1.0 <1.0 <1.0 Soldium ppm 3 2 3 3 Potassium ppm 10 3 3 3 Oxidation (PA) % 63 67 63 Sulfation (PA) % 60 59 53 Sulfation (PA) % % 60 59 53 Sul						
VCP415960 VCP375791 VCP306994	SAMPLE II	NFORMATION				
Sample Date 07 Sep 2023 06 Jun 2022 23 Mar 2021	_		VCD415060	VCD27F701	VCD206004	
Machine Hours Dil Hours O O O O O O O O O O O O O	•					
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Changed Changed N/A Changed Changed Changed Changed Changed NORMAL NORMAL NORMAL Changed C						
Sample Status					-	
OIL CONDITION Visc @ 100°C						
Oil CONDITION 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 CONTAMINATION CONTAMINATION Soot % % 0.2 0.1 0.1 Nitration (PA) % 63 67 63 Sulfation (PA) % 60 59 53 Glycol % NEG NEG NEG Fuel % <1.0	Sample Status		NORMAL	NORMAL	NORMAL	
Oil CONDITION 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 CONTAMINATION CONTAMINATION Soot % % 0.2 0.1 0.1 Nitration (PA) % 63 67 63 Sulfation (PA) % 60 59 53 Glycol % NEG NEG NEG Fuel % <1.0	VOLVO					
Visc @ 100°C		TION				
Sase Number (BN) mg KOH/g 9.5 10.1 Oxidation (PA) % 79 73 46 Oxidation (PA) % 79 73 46 Oxidation (PA) % 63 67 63 Sulfation (PA) % 60 59 53 Sulfation (PA) % 60 59 53 Sulfation (PA) % KEG NEG NEG NEG Fuel % <1.0 <1.0 <1.0 Soldium ppm 3 2 3 3 Potassium ppm 10 3 3 3 Oxidation (PA) % 63 67 63 Sulfation (PA) % 60 59 53 Sulfation (PA) % % 60 59 53 Sul	Visc @ 100°C	cSt	12.9	12.9	12.9	
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CONTAMINATION Soot % % 0.2 0.1 0.1 Nitration (PA) % 63 67 63 Sulfation (PA) % 60 59 53 Glycol NEG NEG NEG Fuel % <1.0						
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Nitration (PA)	_					
Sulfation (PA) % 60 59 53 Glycol % NEG NEG NEG NEG Fuel % <1.0 <1.0 <1.0 Silicon ppm 8 8 8 13 Sodium ppm 3 2 2 3 3 Potassium ppm 10 3 3 3 WEAR METALS Fron ppm 11 10 12 Copper ppm 4 6 15 Lead ppm 11 1 2 Tin ppm 2 2 2 2 Aluminum ppm 7 3 3 2 2	Soot %					
NEG NEG	Nitration (PA)					
Fuel % <1.0	Sulfation (PA)	%	60	59	53	
Sodium ppm 3	Glycol	%	NEG	NEG		
Sodium ppm 3	Fuel	%	<1.0	<1.0	<1.0	
Potassium ppm 10 3 3 WEAR METALS Iron ppm 11 10 12 Copper ppm 4 6 15 Lead ppm 1 1 2 Tin ppm 2 2 2 Aluminum ppm 7 3 2	Silicon	ppm	■8	■8	1 3	
WEAR METALS Iron ppm 11 10 12 Copper ppm 4 6 15 Lead ppm 1 1 2 Tin ppm 2 2 2 Aluminum ppm 7 3 2	Sodium	ppm	■3	2	■3	
WEAR METALS Iron ppm 11 10 12 Copper ppm 4 6 15 Lead ppm 1 1 2 Tin ppm 2 2 2 Aluminum ppm 7 3 2	Potassium	ppm	10	3	■3	
WEAR METALS Iron ppm 11 10 12 Copper ppm 4 6 15 Lead ppm 1 1 2 Tin ppm 2 2 2 Aluminum ppm 7 3 2						
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Lead ppm 1 1 2 Tin ppm 2 2 2 Aluminum ppm 7 3 2	Copper		_		_	
Tin ppm 2 2 2 Aluminum ppm 7 3 2	Lead				_	
Aluminum ppm 17 3 2	Tin				_	
	Aluminum		7		2	
_nromium ppm	Chromium	ppm	■ <1	<1	□ < 1 □	
	Molybdenum		_			

_2

< 1</p>

< 1</p>

<1

1584

527

1019

851

0

53

6

-<1

2

<1

1955

281

1061

977

0

14



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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

-<1

-<1

-<1

1787

573

1234

957

0

43

1

ppm

ADDITIVES



CONSTRUCTION EQUIPMENT





