

## **CONSTRUCTION EQUIPMENT**

333969 SUPERIOR CONS VOLVO EC480EL 314599 - DIESEL ENGIR

Sample No: VCP398032

Sulfation (PA)

Glycol

Silicon

Sodium

Vanadium

Fuel

%

%

%

ppm

ppm

ppm

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

54

**0.9** 

**9** 

**2** 

NEG

**Job No:** 333969 SUPERIOR CONS

SAMPLE IN	FORMATION			
Sample Number	-	VCP398032	VCP343030	 
Sample Date		17 Aug 2023	20 Jan 2022	 
Machine Hours		2481	0	 
Oil Hours		500	0	 
Oil Changed		Changed	Changed	 
Sample Status		ABNORMAL	ATTENTION	 
OIT CONDI.	TION			
Visc @ 100°C	cSt	<b>11.6</b>	<b>△</b> 12.3	 
Base Number (BN)	mg KOH/g	<b>6.3</b>	■10.2	 
Oxidation (PA)	%	61	86	 
CONTAMIN	IATION			
Soot %	%	<b>■</b> 0.1	□ 0.1	 
Nitration (PA)	%	71	69	 

64

1.3

8

**2** 

NEG

Potassium	ppm	<b>0</b>	0	 
WEAR M	ETALS			
Iron	ppm	<b>7</b>	<b>6</b>	 
Copper	ppm	<b>△</b> 59	<b>-</b> <1	 
Lead	ppm	<b>2</b>	<b>-</b> <1	 
Tin	ppm	<b>1</b>	<b>-</b> <1	 
Aluminum	ppm	<b>■2</b>	< 1	 
Chromium	ppm	■0	<b>-</b> <1	 
Molybdenum	ppm	<b>63</b>	<b>4</b> 5	 
Nickel	ppm	■0	0	 
Titanium	ppm	0	< 1	 
Silver	ppm	<b>■</b> 0	<1	 
Manganese	ppm	<b>■&lt;1</b>	< 1	 

ADDITIVES							
Calcium	ppm	<b>1407</b>	<b>1670</b>				
Magnesium	ppm	856	<b>470</b>				
Zinc	ppm	<b>1236</b>	□1053				
Phosphorus	ppm	■883	■864				
Barium	ppm	■0	■0				
Boron	ppm	■3	■30				



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## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. All other 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. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VOLVO0093Unique No:10636066Signed:Jonathan HesterReport Date:13 Sep 2023



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