

CONSTRUCTION EQUIPMENT VOLVO EC480 315321 - DIESEL ENGINE



Sample No: VCP420296

WEAR METALS

Iron

Lead

Tin

Copper

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Vanadium

Calcium

Zinc

Magnesium

Phosphorus

Molybdenum

ppm

ADDITIVES

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

•	
Job	No:

VOLVO				
SAMPLE I	INFORMATION			
Sample Number	-	VCP420296		
Sample Date		20 Oct 2023		
Machine Hours		0		
Oil Hours		0		
Oil Changed		Changed		
Sample Status		ABNORMAL		
OIL COND				
			<u> </u>	-
Visc @ 100°C	cSt	10.8		
Base Number (BN)	5	4.9		
Oxidation (PA)	%	67		
VOLVO				
CONTAMI	NATION			
Water	%	NEG		
Soot %	%	0.1		
Nitration (PA)	%	88		
Sulfation (PA)	%	56		
Glycol	%	NEG		
Glycol Fuel	%	NEG		
-				
Fuel	%	0.8		



COWIN EQUIPMENT COMPANY

P.O. DRAWER 9367 MONTGOMERY, AL US 36108 Contact: BRYAN DICKS bdicks@cowin.com T: (334)262-6642 F: (334)269-1514

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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Barium	ppm	0	
Boron	ppm	19	

15

3

3

3

91

■ <1

0

3

<1

<1

2111

19

1189

987

305

 Depot:
 VOLVO8532

 Unique No:
 10871889

 Signed:
 Jonathan Hester

 Report Date:
 13 Feb 2024

Report Id: VOLVO8532 [WUSCAR] 06084444 (Generated: 02/13/2024 10:28:49) Rev: 1

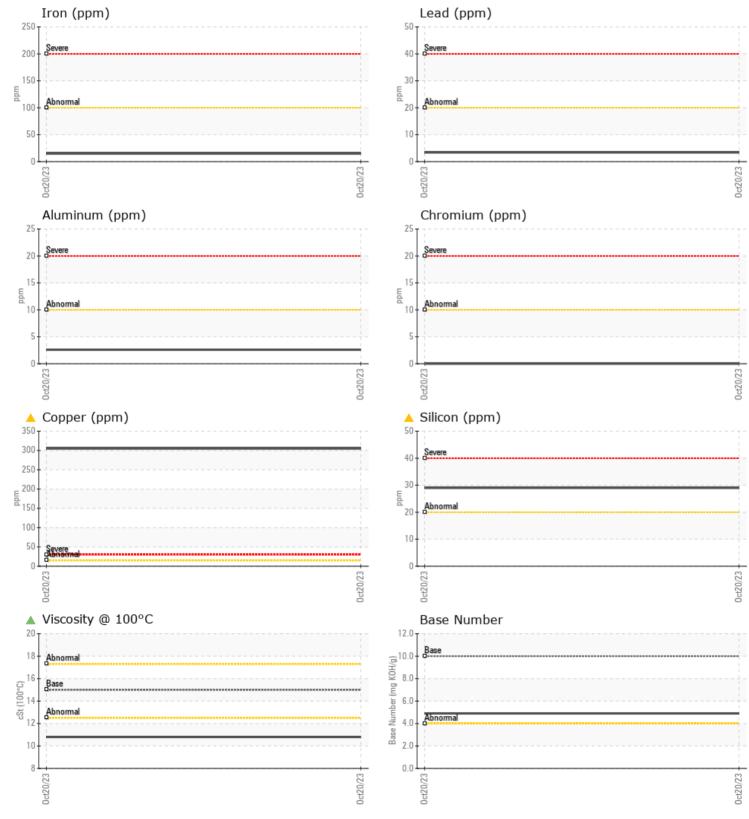
Contact/Location: BRYAN DICKS - VOLVO8532

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO8532 [WUSCAR] 06084444 (Generated: 02/13/2024 10:28:51) Rev: 1

Contact/Location: BRYAN DICKS - VOLVO8532