

CONSTRUCTION EQUIPMENT

621191 CARDINAL AGG VOLVO EC350 314509 - DIESE<mark>l Engin</mark>e

Sample No: VCP432708

Glycol

Silicon

Sodium

Potassium

Fuel

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

NEG

<1.0

6

2

Job No: 621191 CARDINAL AGG

%

ppm

ppm

ppm

SAMPLE INFO	ORMATION						
Sample Number	-	VCP432708	VCP412652				
Sample Date		20 Oct 2023	07 Aug 2023				
Machine Hours		925	608				
Oil Hours		500	608				
Oil Changed		Changed	Changed				
Sample Status		ABNORMAL	ABNORMAL				
OIL CONDITION							
Visc @ 100°C	:St	12.0	▲ 10.3				
Base Number (BN) n	ng KOH/g	■7.1	5.1				
Oxidation (PA) %	6	60	70				
CONTAMINATION							
Soot %	6	■ 0.1	■ 0.1				
Nitration (PA) %	6	62	88				
Sulfation (PA) %	6	54	61				

NEG

0.7

□30

2

WEAR I	METALS			
WLAIL	AIT I VT7	<u> </u>		
Iron	ppm	4	1 4	
Copper	ppm	<u> </u>	^ 202	
Lead	ppm	2	4	
Tin	ppm	■<1	2	
Aluminum	ppm	1	2	
Chromium	ppm	■0	0	
Molybdenum	ppm	60	■83	
Nickel	ppm	■0	0	
Titanium	ppm	<1	3	
Silver	ppm	■ 0	0	
Manganese	ppm	■<1	■ 3	
Vanadium	ppm	0	0	

ZEVITIDO							
Calcium	ppm	1211	2228				
Magnesium	ppm	■870	53				
Zinc	ppm	1100	1229				
Phosphorus	ppm	1007	972				
Barium	ppm	■ 0	0				
Boron	ppm	■0	2 3				



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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 has decreased, but is still abnormal. 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:VOLVO2990Unique No:10729739Signed:Jonathan HesterReport Date:09 Nov 2023



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