

CONSTRUCTION EQUIPMENT

285628 SOM-MACOMB CATERPILLAR 3412 081210309 - DIESEL ENGI

Sample No: VCP416319

Molybdenum

Nickel

Silver

Titanium

Manganese

Vanadium

ppm

ppm

ppm

ppm

ppm

ppm

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

Job No: 285628 SOM-MACOMB

VOLVO			 	
	NFORMATION			
Sample Number		VCP416319	 	
Sample Date		12 Jul 2023	 	
Machine Hours		1223	 	
Oil Hours		50	 	
Oil Changed		Changed	 	
Sample Status		NORMAL	 	
OIL CONDI	TION			
Visc @ 100°C	cSt	13.0	 	
Base Number (BN)	mg KOH/g	9.9	 	
Oxidation (PA)	%	62	 	
CAIGATION (171)	70	V =		
VOLVO	MATION			
CONTAMI				
Soot %	%	■ 0.1	 	
Nitration (PA)	%	52	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	■5	 	
Sodium	ppm	2	 	
Potassium	ppm	■ 0	 	
VOLVO				
WEAR ME	TALS			
Iron	ppm	1	 	
Copper	ppm	■ 3	 	
Lead	ppm	■ 0	 	
Tin	ppm	■0	 	
Aluminum	ppm	■<1	 	
Chromium	ppm	■ 0	 	



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Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 acceptable for the time in service.

VOLVO									
ADDITION									
Calcium	ppm	1274							
Magnesium	ppm	940							
Zinc	ppm	1278							
Phosphorus	ppm	1056							
Barium	ppm	0							
Boron	ppm	15							

Depot:VOLVO2990Unique No:10565409Signed:Don BaldridgeReport Date:25 Jul 2023

57

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