

## CONSTRUCTION EQUIPMENT 701328 NORTH STAR - DIESEL ENGINE



Sample No: VCP445558

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

**Job No:** 701328 NORTH STAR

VOLVO	VEODMATION			
	NFORMATION	<u> </u>		_
Sample Number		VCP445558	 	
Sample Date		16 Apr 2024	 	
Machine Hours		291	 	
Oil Hours		291	 	
Oil Changed		Changed	 	
Sample Status		ATTENTION	 	
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>10.8</b>	 	
Base Number (BN)	ma KOH/a	<b>5.6</b>	 	
Oxidation (PA)	%	53	 	
VOLVO	IATION			
CONTAMIN	NATION	<u> </u>		
Water	%	NEG	 	
Soot %	%	■ 0.2	 	
Nitration (PA)	%	77	 	
Sulfation (PA)	%	55	 	
Glycol	%	NEG	 	
Fuel	%	■1.8	 	
Silicon	ppm	<b>11</b>	 	
Sodium	ppm	<b>5</b>	 	
Potassium	ppm	<b>4</b>	 	
		_		
VOLVO	TALE			
WEAR ME	IAL3			
Iron	ppm	<b>24</b>	 	
Copper	ppm	<b>70</b>	 	
Lead	ppm	<b>■ &lt;1</b>	 	
Tin	ppm	<b>1</b>	 	
Aluminum	ppm	<b>3</b>	 	
Chromium	ppm	<b>1</b>	 	
Molybdenum	ppm	<b>26</b>	 	
Nickel	ppm	<1	 	
Titanium	ppm	<1	 	
Silver	ppm	<b>■</b> 0	 	
Manganese	ppm	■4	 	
Vanadium	ppm	<1	 	
	P.P			
ADDITIVE	7			
Calcium		<b>2079</b>	 	
Magnesium	ppm	<b>2079</b>	 	
	ppm			
Zinc	ppm	<b>■ 1002</b>	 	



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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. All 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:VOLVO2990Unique No:10996688Signed:Don BaldridgeReport Date:02 May 2024

ppm

ppm

ppm

**847** 

**4** 

**36** 

Phosphorus

Barium

Boron



## **CONSTRUCTION EQUIPMENT**





