

## **CONSTRUCTION EQUIPMENT**

HILLSBOROUGH VOLVO EW 160EL 324178 - DIESEL ENGINE

Sample No: VCP435613

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

Job No: HILLSBOROUGH

SAMPLE II	NFORMATION			
Sample Number	_	VCP435613	VCP431775	 
Sample Date		19 Feb 2024	07 Nov 2023	 
Machine Hours		929	479	 
Oil Hours		0	479	 
Oil Changed		N/A	Changed	 
Sample Status		NORMAL	ATTENTION	 
Sumple Status		HORMAL	ATTENTION	
VOLVO	=1011			
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>12.8</b>	10.7	 
Base Number (BN)	mg KOH/g	■9.5	9.6	 
Oxidation (PA)	%	73	82	 
CONTAMIN	NATION			
_				
Water	%	NEG	NEG	 
Soot %	%	■ 0.1	0.1	 
Nitration (PA)	%	53	53	 
Sulfation (PA)	%	57	61	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	□ 0.4	 
Silicon	ppm	■29	<b>2</b> 5	 
Sodium	ppm	<b>2</b>	<b>4</b>	 
Potassium	ppm	<b>3</b>	<b>2</b>	 
VOLVO				
WEAR ME	TALS			
Iron		<b>1</b> 9	<b>□</b> 14	 
Copper	ppm	<b>2</b>	<b>1</b> 4	 
Lead	ppm	<b>■</b> <1	<b>1</b> < 1	 
Tin	ppm	<b>1</b>	2	 
Aluminum		<b>2</b>	<b>4</b>	 
Chromium	ppm	<b>1</b>	1	 
Molybdenum	ppm	<b>■ 45</b>	34	 
Nickel	ppm	<b>2</b>	5	 
Titanium	ppm	<1	0	 
Silver	ppm	0	0	 
	ppm	<b>1</b>	<b>1</b> 4	 
Manganese Vanadium	ppm	<1	0	 
vallauluifi	ppm	<b>~</b> 1	U	 
WOLLAND				

**1448** 

**496** 

**1039** 

■866

**0** 

**48** 



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## Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 suitable for further service.

Depot:VOLVO0093Unique No:10900460Signed:Wes DavisReport Date:28 Feb 2024

**1319** 

**585** 

**1083** 

**910** 

**2** 

**31** 

**ADDITIVES** 

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



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