

## **CONSTRUCTION EQUIPMENT** VOLVO SD115 236019 - DIESEL ENGINE



Sample No: VCP413238

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

Job No: 593980

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP413238	VCP385160		
Sample Date		11 Aug 2023	24 Oct 2022		
Machine Hours		5001	4470		
Oil Hours		0	0		
Oil Changed		Changed	Changed		
Sample Status		ABNORMAL	NORMAL		
OIL CONDITION					
Visc @ 100°C	cSt	<u> </u>	■13.0		
Base Number (BN)	mg KOH/g	■10.1	■ 10.2		
Oxidation (PA)	%	88	62		
CONTAMIN	NATION				
Soot %	%	□0.4	□ 0.3		
Nitration (PA)	%	76	62		
Sulfation (PA)	%	61	55		
Glycol	%	NEG	NEG		
Fuel	%	<b>4.7</b>	<1.0		
Silicon	ppm	■8	<b>6</b>		
Sodium	ppm	<b>■</b> 3	<b>1</b>		
Potassium	ppm	<b>2</b>	<b>3</b>		
WEAR ME	TALS				
Iron	ppm	<b>21</b>	<b>1</b> 6		
Copper	ppm	<b>■</b> 4	<b>3</b>		
Lead	ppm	<b>■</b> <1	<b>&lt;</b> 1		
Tin	ppm	■1	<b></b>		
Aluminum	ppm	<b>17</b>	<b>1</b> 3		
Chromium	ppm	<b>2</b>	<b>1</b>		
Molybdenum	ppm	<b>45</b>	<b>□</b> 56		
Nickel	ppm	<b></b>	0		
Titanium	ppm	<1	<1		
Silver	ppm	<b></b>	0		
Manganese	ppm	<b>1</b>	<1		
Vanadium	ppm	<1	<1		
ADDITION					
Calcium	ppm	<b>1724</b>	■1470		
Magnesium	ppm	<u>■</u> 575	838		
Zinc	ppm	<b>1149</b>	<b>1343</b>		
Phosphorus	ppm	<b>944</b>	<b>1112</b>		
Barium	ppm	<b>0</b>	<b>2</b>		
Boron	ppm	<b>■27</b>	<b>6</b>		

#### WLW CONSTRUCTION

PO BOX 377 MT DORA, FL US 32756-0377 Contact: ELAINE STULTZ elaine@wlwconstruction.com T: (352)383-7305 F:

### 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. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: WLWMOU **Unique No:** 10608029 Signed: Jonathan Hester Report Date: 22 Aug 2023

Contact/Location: ELAINE STULTZ - WLWMOU



# **CONSTRUCTION EQUIPMENT**





