

## CONSTRUCTION EQUIPMENT 19244 VOLVO EC140 315556 - DIESEL ENGINE



Sample No: VCP412249

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

**Job No:** 19244

SAMPLE IN	NFORMATION			
Sample Number		VCP412249	VCP381098	 
Sample Date		23 Jul 2023	24 Feb 2023	 
Machine Hours		2129	651	 
Oil Hours		0	0	 
Oil Changed		Changed	Changed	 
Sample Status		ABNORMAL	MARGINAL	 
OIT CONDI.	TION			
Visc @ 100°C	cSt	<b>12.8</b>	12.4	 
Base Number (BN)	mg KOH/g	<b>6.7</b>	■ 6.9	 
Oxidation (PA)	%	73	48	 
CONTAMIN	IATION			
Soot %	%	■ 0.3	□0.1	 

CONTAI	MINATION				
Soot %	%	■ 0.3	□0.1	 	
Nitration (PA)	%	78	66	 	
Sulfation (PA)	%	60	49	 	
Glycol	%	NEG	NEG	 	
Fuel	%	<1.0	<u>2.4</u>	 	
Silicon	ppm	<u>^</u> 28	<b>1</b> 5	 	
Sodium	ppm	<b>2</b>	< 1	 	
Potassium	ppm	<b>■</b> <1	_2	 	

VOLVO	METALC			
WEAR	METALS			
Iron	ppm	■29	<b>1</b> 7	 
Copper	ppm	<b>6</b>	<b>6</b>	 
Lead	ppm	<b>0</b>	<b>1</b>	 
Tin	ppm	<b>2</b>	<b>2</b>	 
Aluminum	ppm	<b>5</b>	<b>1</b> 2	 
Chromium	ppm	<b>2</b>	<b>2</b>	 
Molybdenum	ppm	<b>54</b>	<b>■</b> 3	 
Nickel	ppm	<b>-&lt;1</b>	<b>5</b>	 
Titanium	ppm	<b>13</b>	<b>1</b> 8	 
Silver	ppm	<b>■</b> 0	0	 
Manganese	ppm	<b>1</b>	3	 
Vanadium	ppm	<1	0	 

ADDITIVES					
Calcium	ppm	<b>1381</b>	<b>2243</b>		
Magnesium	ppm	922	<b>162</b>		
Zinc	ppm	<b>1339</b>	<b>1</b> 094		
Phosphorus	ppm	<b>1049</b>	■882		
Barium	ppm	<b>0</b>	<b>0</b>		
Boron	ppm	<b>21</b>	<b>1</b> 9		



# HILCO TRANSPORT 7700 KENMONT RD GREENSBORO, NC US 27409 Contact: MIKE LAUGHEAD mlaughead@hilcotransport.com T: (336)273-9441 F: (336)273-9701

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot:HILGREVCUnique No:10586915Signed:Don BaldridgeReport Date:05 Aug 2023



### **CONSTRUCTION EQUIPMENT**





