

### **CONSTRUCTION EQUIPMENT**

S50401210 D00SAN HP1600 494124UEA - DIESEL ENGINE

Sample No: VCP424208

Oil Type: DOOSAN 15W40

**Job No:** s50401210

Oxidation (PA)



# VCES- VOLVO CONSTRUCTION EQUIPMENT 22099 KNABE ROAD

US 92883

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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 suitable for further service.

SAMPLE IN	NFORMATION				
Sample Number	-	VCP424208	VCP400442		
Sample Date		11 Aug 2023	26 Jul 2023		
Machine Hours		1162	1161		
Oil Hours		0	37		
Oil Changed		N/A	N/A		
Sample Status		NORMAL	ABNORMAL		
OIL CONDITION					
Visc @ 100°C	cSt	<b>14.8</b>	■13.5		
Base Number (BN)	mg KOH/g	<b>12.7</b>	■6.8		

CONTAMINATION					
Soot %	%	■ 0	□0.4		
Nitration (PA)	%	43	90		
Sulfation (PA)	%	44	79		
Glycol	%	NEG	NEG		
Fuel	%	<1.0	< 1.0		
Silicon	ppm	<b>4</b>	<u>^</u> 24		
Sodium	ppm	<b>-&lt;1</b>	<b>4</b>		
Potassium	ppm	<b>2</b>	<b>3</b>		

119

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VOLVO				
WEAR I	METALS			
Iron	ppm	<b>1</b>	<b>△</b> 62	 
Copper	ppm	■0	<b>1</b> 5	 
Lead	ppm	<b>■&lt;1</b>	<b>1</b>	 
Tin	ppm	<b>■&lt;1</b>	<b>2</b>	 
Aluminum	ppm	<b>0</b>	<b>6</b>	 
Chromium	ppm	■0	<b>2</b>	 
Molybdenum	ppm	<b>45</b>	■35	 
Nickel	ppm	■0	<b></b> <1	 
Titanium	ppm	<1	<b>0</b>	 
Silver	ppm	■0	<b>-</b> <1	 
Manganese	ppm	<1	<b>4</b>	 
Vanadium	ppm	0	0	 

ADDITIVES					
Calcium	ppm	<b>2678</b>	<b>2155</b>		
Magnesium	ppm	<b>522</b>	<b>426</b>		
Zinc	ppm	<b>1538</b>	<b>1150</b>		
Phosphorus	ppm	<b>1248</b>	■877		
Barium	ppm	<b>0</b>	<b>2</b>		
Boron	ppm	<b>■79</b>	<b>2</b> 7		

Depot:VOLVO4486Unique No:10603851Signed:Wes DavisReport Date:15 Aug 2023



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