

## **CONSTRUCTION EQUIPMENT**

620518 NA MINING VOLVO L180H 5785 - DIESEL ENGINE

Sample No: VCP411600

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

**Job No:** 620518 NA MINING

VOLVO				
SAMPLE II	NFORMATION			
Sample Number		VCP411600	VCP414713	 
Sample Date		16 Oct 2023	14 Sep 2023	 
Machine Hours		1214	628	 
Oil Hours		500	628	 
Oil Changed		Changed	Changed	 
Sample Status		ABNORMAL	ABNORMAL	 
OIL CONDI	TION			
		=42.7	A 44.2	
Visc @ 100°C	cSt	<b>■12.7</b>	▲ 11.2	 
Base Number (BN)		<b>9.5</b>	<b>6.2</b>	 
Oxidation (PA)	%	79	57	 
VOLVO				 
CONTAMIN	NATION			
Water	%	NEG	NEG	 
Soot %	%	■0.1	□0.1	 
Nitration (PA)	%	59	78	 
Sulfation (PA)	%	61	51	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	0.5	 
Silicon	ppm	<b>■</b> 9	■25	 
Sodium	ppm	<b>3</b>	<1	 
Potassium	ppm	<b>2</b>	<b>4</b>	 
WEAR ME	TALS			
Iron		<b>1</b> 5	<b>1</b> 0	 
Copper	ppm	<u> </u>	▲ 509	 
Lead	ppm	<b>■&lt;1</b>	<1	 
Tin	ppm	<b>1</b> <1	2	 
Aluminum	ppm	<b>2</b>	0	 
Chromium	ppm	<b>-</b> <1	0	 
Molybdenum	ppm	■44	■86	 
Nickel	ppm	■0	<1	 
Titanium	ppm	<1	0	 
Silver	ppm	<b>■</b> 0	0	 
Manganese	ppm	<b>■</b> <1	<u></u> 2	 
			_	

2099

22

**1168** 

974

**2** 

**44** 



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## 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. The copper level has decreased, but is still abnormal. All other 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 acceptable for the time in service.

Depot:VOLVO0093Unique No:10752975Signed:Don BaldridgeReport Date:23 Nov 2023

**1733** 

**445** 

**1154** 

**937** 

**0** 

**35** 

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

ppm

ppm

ppm

ppm

ppm

ppm

ppm

**ADDITIVES** 



## **CONSTRUCTION EQUIPMENT**





## GRAPHS

