

## **CONSTRUCTION EQUIPMENT**

SW-26051-2 HOLCIM VOLVO L180H 5636 - DIESEL ENGINE

Sample No: VCP442150

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Vanadium

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

Molybdenum

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

Job No: SW-26051-2 HOLCIM

SAMPLE II	NFORMATION			
Sample Number	-	VCP442150	VCP400952	 
Sample Date		09 Nov 2023	04 May 2023	 
Machine Hours		1756	650	 
Oil Hours		1100	650	 
Oil Changed		Changed	Changed	 
Sample Status		ABNORMAL	ABNORMAL	 
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>12.7</b>	<b>▲</b> 10.8	 
Base Number (BN)	mg KOH/g	<b>6.7</b>	<b>6.3</b>	 
Oxidation (PA)	%	69	61	 
VOLVO				
CONTAMIN	NATION			
Water	%	NEG	NEG	 
Soot %	%	■ 0.3	■ 0.1	 
Nitration (PA)	%	72	79	 
Sulfation (PA)	%	60	53	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	■0.6	 
Silicon	ppm	<b>11</b>	■29	 
Sodium	ppm	<b>■</b> <1	<b>4</b>	 
Potassium	ppm	<b>0</b>	<b>4</b>	 
WEAR ME	TALS			
Iron	ppm	<b>1</b> 5	■48	 
Copper	ppm	<b>△</b> 66	<b>4</b> 50	 
Lead	ppm	<b>1</b>	<b>6</b>	 
Tin	ppm	<b>2</b>	<b>2</b>	 

**5** 

**0** 

94

< 1</p>

0

**0** 

**2** 

0

**2340** 

**1311** 

1099

**0** 

**5**1

**1**6



#### ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH SALT LAKE CITY, UT US 84119 Contact: TJ LARK tlark@arnoldmachinery.com T: (801)972-4000 F: (801)975-9434

### 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 suitable for further service.

Depot: Unique No: Signed: Report Date:

VOLVO8770 10749766 Don Baldridge 20 Nov 2023

Contact/Location: TJ LARK - VOLVO8770

**2** 

**-**<1

**63** 

**0** 

**■**0

**- < 1** 

**1226** 

**876** 

**1221** 

**■896** 

**0** 

**4** 

0

ppm

**ADDITIVES** 



# **CONSTRUCTION EQUIPMENT**





