



# CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO L110H 631173 - DIESEL ENGINE



**Sample No:** VCP416010  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** TUCKER PAVING



## SAMPLE INFORMATION

Sample Number	<b>VCP416010</b>	VCP422912	VCP385330	VCP330279
Sample Date	<b>28 Jun 2023</b>	28 Jun 2023	20 Sep 2022	03 Mar 2022
Machine Hours	<b>7247</b>	11986	7145	6576
Oil Hours	<b>0</b>	500	500	1500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.0	14.8	13.3
Base Number (BN)	mg KOH/g	<b>10.5</b>	10.2	10.8	11.6
Oxidation (PA)	%	<b>84</b>	83	86	87



## CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.2	0.2
Nitration (PA)	%	<b>72</b>	71	87	69
Sulfation (PA)	%	<b>62</b>	61	72	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	11	4
Sodium	ppm	<b>2</b>	1	3	2
Potassium	ppm	<b>0</b>	0	3	0



## WEAR METALS

Iron	ppm	<b>11</b>	9	39	7
Copper	ppm	<b>2</b>	<1	2	<1
Lead	ppm	<b>0</b>	0	4	<1
Tin	ppm	<b>1</b>	<1	1	<1
Aluminum	ppm	<b>5</b>	4	9	4
Chromium	ppm	<b>&lt;1</b>	<1	2	<1
Molybdenum	ppm	<b>42</b>	42	68	44
Nickel	ppm	<b>0</b>	0	1	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	1	0



## ADDITIVES

Calcium	ppm	<b>1592</b>	1622	2036	1689
Magnesium	ppm	<b>479</b>	476	522	507
Zinc	ppm	<b>1037</b>	1070	1469	1035
Phosphorus	ppm	<b>860</b>	884	1210	905
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>38</b>	20	3	39

## 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.

**Depot:** VOLVO0093  
**Unique No:** 10551685  
**Signed:** Wes Davis  
**Report Date:** 12 Jul 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

