



# CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO L110H 631173 - DIESEL ENGINE



**Sample No:** VCP435784  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** TUCKER PAVING



## SAMPLE INFORMATION

Sample Number	<b>VCP435784</b>	VCP416010	VCP422912	VCP385330
Sample Date	<b>08 Nov 2023</b>	28 Jun 2023	28 Jun 2023	20 Sep 2022
Machine Hours	<b>8180</b>	7247	11986	7145
Oil Hours	<b>0</b>	0	500	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</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>13.0</b>	█ 13.1	█ 13.0	█ 14.8
Base Number (BN)	mg KOH/g	█ <b>10.4</b>	█ 10.5	█ 10.2	█ 10.8
Oxidation (PA)	%	<b>79</b>	84	83	86



## CONTAMINATION

Soot %	%	█ <b>0.2</b>	█ 0.3	█ 0.3	█ 0.2
Nitration (PA)	%	<b>56</b>	72	71	87
Sulfation (PA)	%	<b>61</b>	62	61	72
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	▲ <b>21</b>	█ 5	█ 4	█ 11
Sodium	ppm	█ <b>&lt;1</b>	█ 2	█ 1	█ 3
Potassium	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ 3



## WEAR METALS

Iron	ppm	█ <b>29</b>	█ 11	█ 9	█ 39
Copper	ppm	█ <b>4</b>	█ 2	█ <1	█ 2
Lead	ppm	█ <b>2</b>	█ 0	█ 0	█ 4
Tin	ppm	█ <b>2</b>	█ 1	█ <1	█ 1
Aluminum	ppm	█ <b>8</b>	█ 5	█ 4	█ 9
Chromium	ppm	█ <b>4</b>	█ <1	█ <1	█ 2
Molybdenum	ppm	█ <b>43</b>	█ 42	█ 42	█ 68
Nickel	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ 1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	█ <b>&lt;1</b>	█ 0	█ 0	0
Manganese	ppm	█ <b>1</b>	█ <1	█ <1	█ 1
Vanadium	ppm	<b>0</b>	<1	<1	1



## ADDITIVES

Calcium	ppm	█ <b>1594</b>	█ 1592	█ 1622	█ 2036
Magnesium	ppm	█ <b>526</b>	█ 479	█ 476	█ 522
Zinc	ppm	█ <b>1149</b>	█ 1037	█ 1070	█ 1469
Phosphorus	ppm	█ <b>983</b>	█ 860	█ 884	1210
Barium	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>38</b>	█ 38	█ 20	█ 3

## Diagnosis

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:** VOLVO0093  
**Unique No:** 10739023  
**Signed:** Don Baldrige  
**Report Date:** 15 Nov 2023



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## VOLVO GRAPHS

