



# CONSTRUCTION EQUIPMENT

717694 PADNOS VOLVO L35B 1873696 - DIESEL ENGINE



**Sample No:** VCP452663  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 717694 PADNOS



## SAMPLE INFORMATION

Sample Number	<b>VCP452663</b>	VCP403673	VCP388370	VCP373447
Sample Date	<b>05 Jun 2024</b>	10 Jan 2023	10 Oct 2022	21 Jul 2022
Machine Hours	<b>11487</b>	7783	7186	6521
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
56195 PONTIAC TRAIL  
NEW HUDSON, MI  
US 48165  
Contact: PAUL CONZ  
paul.conz@altg.com  
T: (313)348-8861  
F: (248)356-2029



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	14.5	14.4	13.3
Base Number (BN)	mg KOH/g	<b>9.2</b>	9.1	10.7	11.8
Oxidation (PA)	%	<b>60</b>	63	72	87

## 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 acceptable for the time in service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.5	0.8	0.6
Nitration (PA)	%	<b>61</b>	69	80	69
Sulfation (PA)	%	<b>52</b>	54	60	68
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	4	4	7
Sodium	ppm	<b>&lt;1</b>	1	0	2
Potassium	ppm	<b>&lt;1</b>	<1	2	1



## WEAR METALS

Iron	ppm	<b>6</b>	11	16	19
Copper	ppm	<b>0</b>	<1	1	2
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	3	6	6
Chromium	ppm	<b>0</b>	1	2	5
Molybdenum	ppm	<b>56</b>	55	66	49
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1159</b>	1354	1244	1706
Magnesium	ppm	<b>917</b>	886	938	560
Zinc	ppm	<b>1216</b>	1370	1329	1171
Phosphorus	ppm	<b>1048</b>	1078	1099	978
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>&lt;1</b>	19	4	49

**Depot:** VOLVO2990  
**Unique No:** 11087223  
**Signed:** Don Baldrige  
**Report Date:** 21 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

