



# CONSTRUCTION EQUIPMENT

TMR-OKEECHOBEE 660875 14700 VOLVO L150E 17719 - DIESEL ENGINE



**Sample No:** VCP437952  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 660875



## SAMPLE INFORMATION

Sample Number	<b>VCP437952</b>	VCP412618	VCP422425	DJJ05276161
Sample Date	<b>24 Jan 2024</b>	21 Jul 2023	11 May 2023	09 Jun 2021
Machine Hours	<b>22404</b>	21427	1231	18789
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**TRADEMARK METALS RECYCLING - OKEECHOBEE**  
 9800 NE 128TH AVE  
 OKEECHOBEE, FL  
 US 34972  
 Contact: RYAN BOWDEN



## OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	13.0	13.3	12.8
Base Number (BN)	mg KOH/g	<b>7.3</b>	9.2	7.0	---
Oxidation (PA)	%	<b>79</b>	95	96	87

T: (863)467-9810  
 F: (863)467-9814

## 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.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.7</b>	0.7	1	0.5
Nitration (PA)	%	<b>73</b>	82	90	75
Sulfation (PA)	%	<b>62</b>	70	72	71
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	4	4
Sodium	ppm	<b>2</b>	2	4	2
Potassium	ppm	<b>2</b>	0	<1	<1



## WEAR METALS

Iron	ppm	<b>11</b>	11	25	5
Copper	ppm	<b>&lt;1</b>	<1	2	3
Lead	ppm	<b>3</b>	3	13	2
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>3</b>	2	<1	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>77</b>	51	97	59
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1392</b>	1635	1647	1644
Magnesium	ppm	<b>485</b>	522	547	521
Zinc	ppm	<b>955</b>	1097	985	1116
Phosphorus	ppm	<b>814</b>	896	784	908
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>132</b>	43	109	103

**Depot:** TRAOKE  
**Unique No:** 10849235  
**Signed:** Wes Davis  
**Report Date:** 30 Jan 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

