



# CONSTRUCTION EQUIPMENT

## TMR-PUNTA GORDA 17723 VOLVO L90E 66418 - DIESEL ENGINE



**Sample No:** VCP443331

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

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP443331</b>	DJJ037154	DJJ023591	VCP194360
Sample Date	<b>09 Jul 2024</b>	28 May 2020	24 Jul 2018	07 Jun 2017
Machine Hours	<b>19816</b>	17249	14914	12925
Oil Hours	<b>0</b>	0	14914	1000
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	SEVERE	ABNORMAL	ABNORMAL

**TRADEMARK METALS RECYCLING - PUNTA GORDA**  
 5005 DALEWOOD STREET  
 PUNTA GORDA, FL  
 US 33982  
 Contact: RYAN BOWDEN



### OIL CONDITION

Visc @ 100°C	cSt	<b>11.9</b>	10.9	11.29	11.53
Base Number (BN)	mg KOH/g	<b>9.4</b>	---	---	---
Oxidation (PA)	%	<b>72</b>	94	98	80

T:  
 F: (941)575-4458

### Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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>0.2</b>	0.4	0.5	0.2
Nitration (PA)	%	<b>53</b>	68	65	58
Sulfation (PA)	%	<b>57</b>	65	66	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>5.7</b>	10.1	8.3	6.0
Silicon	ppm	<b>6</b>	6	6	7
Sodium	ppm	<b>2</b>	2	2	3
Potassium	ppm	<b>&lt;1</b>	9	0	2



### WEAR METALS

Iron	ppm	<b>4</b>	4	5	8
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	1	1	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	31	31	38
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	0	0
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>1570</b>	1402	1376	1398
Magnesium	ppm	<b>536</b>	454	440	476
Zinc	ppm	<b>1071</b>	784	700	769
Phosphorus	ppm	<b>922</b>	720	604	666
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>47</b>	41	30	37

**Depot:** TRAPUN  
**Unique No:** 11124279  
**Signed:** Wes Davis  
**Report Date:** 16 Jul 2024



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## VOLVO GRAPHS

