



# CONSTRUCTION EQUIPMENT

## X47254 TADANO GR550XL-3 542059 - DIESEL ENGINE



**Sample No:** VCP416487  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X47254



### SAMPLE INFORMATION

Sample Number	<b>VCP416487</b>	VCP391228	VCP351105	---
Sample Date	<b>13 Jul 2023</b>	17 Feb 2023	13 Apr 2022	---
Machine Hours	<b>2027</b>	1790	567	---
Oil Hours	<b>0</b>	0	567	---
Oil Changed	<b>N/A</b>	N/A	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.7	13.3	---
Base Number (BN)	mg KOH/g	<b>10.3</b>	7.5	8.6	---
Oxidation (PA)	%	<b>79</b>	68	70	---

### 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

Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>55</b>	65	66	---
Sulfation (PA)	%	<b>59</b>	57	59	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	5	37	---
Sodium	ppm	<b>4</b>	1	2	---
Potassium	ppm	<b>0</b>	7	2	---



### WEAR METALS

Iron	ppm	<b>16</b>	15	22	---
Copper	ppm	<b>2</b>	2	55	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>5</b>	5	4	---
Chromium	ppm	<b>&lt;1</b>	1	<1	---
Molybdenum	ppm	<b>38</b>	6	59	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	5	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1824</b>	2107	1815	---
Magnesium	ppm	<b>490</b>	68	393	---
Zinc	ppm	<b>1151</b>	1145	1309	---
Phosphorus	ppm	<b>966</b>	954	1083	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>92</b>	190	109	---

**Depot:** VOLVO6244  
**Unique No:** 10563393  
**Signed:** Jonathan Hester  
**Report Date:** 20 Jul 2023



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## GRAPHS

