



# CONSTRUCTION EQUIPMENT

9320 PETERSON 5710D 40D-2952749 - DIESEL ENGINE



**Sample No:** VCP437691  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 9320



## SAMPLE INFORMATION

Sample Number	<b>VCP437691</b>	VCP412623	---	---
Sample Date	<b>10 Jan 2024</b>	24 Aug 2023	---	---
Machine Hours	<b>1361</b>	841	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>SEVERE</b>	MARGINAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.3</b>	12.1	---	---
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.1	---	---
Oxidation (PA)	%	<b>91</b>	76	---	---

## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.6</b>	0.3	---	---
Nitration (PA)	%	<b>93</b>	71	---	---
Sulfation (PA)	%	<b>66</b>	60	---	---
Glycol	%	<b>0.10</b>	0.0	---	---
Fuel	%	<b>&lt;1.0</b>	3.8	---	---
Silicon	ppm	<b>10</b>	12	---	---
Sodium	ppm	<b>501</b>	88	---	---
Potassium	ppm	<b>130</b>	42	---	---



## WEAR METALS

Iron	ppm	<b>61</b>	28	---	---
Copper	ppm	<b>182</b>	15	---	---
Lead	ppm	<b>9</b>	2	---	---
Tin	ppm	<b>2</b>	2	---	---
Aluminum	ppm	<b>17</b>	19	---	---
Chromium	ppm	<b>4</b>	3	---	---
Molybdenum	ppm	<b>57</b>	46	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>13</b>	<1	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>1</b>	2	---	---
Vanadium	ppm	<b>&lt;1</b>	<1	---	---



## ADDITIVES

Calcium	ppm	<b>1594</b>	1719	---	---
Magnesium	ppm	<b>489</b>	500	---	---
Zinc	ppm	<b>1122</b>	1117	---	---
Phosphorus	ppm	<b>922</b>	896	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>21</b>	26	---	---

**Depot:** VOLVO0096  
**Unique No:** 10832039  
**Signed:** Jonathan Hester  
**Report Date:** 17 Jan 2024



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## GRAPHS

