



# CONSTRUCTION EQUIPMENT

SPM567503 SCORIA HITACHI ZW250-6 ZW2506-005232 - DIESEL ENGINE



**Sample No:** VCP369263  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM567503 SCORIA



## SAMPLE INFORMATION

Sample Number	<b>VCP369263</b>	VCP404882	VCP365827	---
Sample Date	<b>20 Jun 2023</b>	28 Mar 2023	20 Oct 2022	---
Machine Hours	<b>4504</b>	3973	3451	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.2	12.9	---
Base Number (BN)	mg KOH/g	<b>9.9</b>	8.8	9.2	---
Oxidation (PA)	%	<b>61</b>	55	69	---

## CONTAMINATION

Soot %	%	<b>0.6</b>	0.6	0.2	---
Nitration (PA)	%	<b>64</b>	60	79	---
Sulfation (PA)	%	<b>56</b>	49	58	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	4	7	---
Sodium	ppm	<b>&lt;1</b>	<1	2	---
Potassium	ppm	<b>1</b>	0	<1	---

## 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.

## WEAR METALS

Iron	ppm	<b>20</b>	20	20	---
Copper	ppm	<b>1</b>	<1	2	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>4</b>	4	5	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>60</b>	48	58	---
Nickel	ppm	<b>0</b>	0	<1	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	<1	---

## ADDITIVES

Calcium	ppm	<b>1056</b>	752	1068	---
Magnesium	ppm	<b>989</b>	766	880	---
Zinc	ppm	<b>1321</b>	900	1215	---
Phosphorus	ppm	<b>1046</b>	810	982	---
Barium	ppm	<b>0</b>	0	2	---
Boron	ppm	<b>&lt;1</b>	1	8	---

**Depot:** VOLVO8885  
**Unique No:** 10548412  
**Signed:** Wes Davis  
**Report Date:** 10 Jul 2023



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## GRAPHS

