



# CONSTRUCTION EQUIPMENT

SWO-071566 VOLVO A45G 352769 - DIESEL ENGINE



**Sample No:** VCP453686  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-071566



## SAMPLE INFORMATION

Sample Number	<b>VCP453686</b>	VCP441231	VCP433858	VCP408948
Sample Date	<b>01 May 2024</b>	05 Jan 2024	20 Sep 2023	21 Jun 2023
Machine Hours	<b>5450</b>	4942	4400	3875
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.7	12.4	12.8
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.7	10.1	10.2
Oxidation (PA)	%	<b>77</b>	74	80	81

## 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>0.2</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>55</b>	56	53	58
Sulfation (PA)	%	<b>59</b>	57	60	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	0.5	<1.0
Silicon	ppm	<b>3</b>	3	4	5
Sodium	ppm	<b>3</b>	0	2	3
Potassium	ppm	<b>0</b>	0	0	1



## WEAR METALS

Iron	ppm	<b>3</b>	2	6	7
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	<1	<1	2
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>&lt;1</b>	1	0	0
Chromium	ppm	<b>0</b>	<1	0	<1
Molybdenum	ppm	<b>42</b>	42	40	44
Nickel	ppm	<b>0</b>	1	<1	1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1752</b>	1499	1743	1764
Magnesium	ppm	<b>481</b>	601	510	543
Zinc	ppm	<b>995</b>	1160	1129	1154
Phosphorus	ppm	<b>902</b>	957	907	972
Barium	ppm	<b>0</b>	0	0	4
Boron	ppm	<b>76</b>	28	47	60

**Depot:** SAIBIR  
**Unique No:** 11019687  
**Signed:** Don Baldrige  
**Report Date:** 11 May 2024



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## VOLVO GRAPHS

