



# CONSTRUCTION EQUIPMENT

SWO-06927 VOLVO A60H 350020 - DIESEL ENGINE



**Sample No:** VCP441043  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-06927



## SAMPLE INFORMATION

Sample Number	<b>VCP441043</b>	VCP386215	VCP364913	VCP358077
Sample Date	<b>23 Jan 2024</b>	08 Nov 2022	29 Jul 2022	29 Mar 2022
Machine Hours	<b>7905</b>	4111	3617	3038
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>	13.2	12.7	13.1
Base Number (BN)	mg KOH/g	<b>7.0</b>	11.1	10.6	7.4
Oxidation (PA)	%	<b>65</b>	84	80	47

## 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>0.3</b>	0.5	0.6	0.5
Nitration (PA)	%	<b>76</b>	66	68	73
Sulfation (PA)	%	<b>52</b>	65	66	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	5	4
Sodium	ppm	<b>2</b>	2	0	2
Potassium	ppm	<b>2</b>	0	1	2



## WEAR METALS

Iron	ppm	<b>4</b>	9	11	15
Copper	ppm	<b>&lt;1</b>	2	3	14
Lead	ppm	<b>&lt;1</b>	1	<1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	4	4	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>102</b>	38	43	27
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1382</b>	1764	1661	2520
Magnesium	ppm	<b>663</b>	455	426	47
Zinc	ppm	<b>929</b>	1185	1097	1152
Phosphorus	ppm	<b>803</b>	954	913	1019
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>105</b>	54	42	18

**Depot:** SAIBIR  
**Unique No:** 10849231  
**Signed:** Don Baldrige  
**Report Date:** 30 Jan 2024



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## GRAPHS

