



# CONSTRUCTION EQUIPMENT

SWO-65290 VOLVO A60H 340044 - DIESEL ENGINE



**Sample No:** VCP383715  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-65290



## SAMPLE INFORMATION

Sample Number	<b>VCP383715</b>	VCP411751	VCP410186	VCP405241
Sample Date	<b>21 Aug 2023</b>	04 Aug 2023	11 May 2023	10 Apr 2023
Machine Hours	<b>8811</b>	8791	8303	8110
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	12.6	12.6	12.5
Base Number (BN)	mg KOH/g	<b>9.5</b>	10.4	10.2	9.1
Oxidation (PA)	%	<b>55</b>	79	79	73



## CONTAMINATION

Soot %	%	<b>0.2</b>	1	0.7	0.4
Nitration (PA)	%	<b>43</b>	63	63	51
Sulfation (PA)	%	<b>50</b>	64	63	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	▲ 87	24	3
Sodium	ppm	<b>&lt;1</b>	0	3	2
Potassium	ppm	<b>&lt;1</b>	10	<1	0



## WEAR METALS

Iron	ppm	<b>8</b>	58	26	27
Copper	ppm	<b>&lt;1</b>	3	2	1
Lead	ppm	<b>&lt;1</b>	5	1	3
Tin	ppm	<b>&lt;1</b>	2	1	<1
Aluminum	ppm	<b>5</b>	▲ 47	17	1
Chromium	ppm	<b>&lt;1</b>	1	<1	2
Molybdenum	ppm	<b>53</b>	39	42	61
Nickel	ppm	<b>&lt;1</b>	2	<1	0
Titanium	ppm	<b>&lt;1</b>	2	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	2	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1120</b>	1644	1718	1164
Magnesium	ppm	<b>763</b>	465	514	869
Zinc	ppm	<b>1106</b>	1029	1074	1144
Phosphorus	ppm	<b>963</b>	874	875	955
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>12</b>	33	44	13

## 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 acceptable for the time in service.

**Depot:** SAIBIR  
**Unique No:** 10630056  
**Signed:** Sean Felton  
**Report Date:** 01 Sep 2023



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## GRAPHS

