



# CONSTRUCTION EQUIPMENT

608203 IHFT SENNEBOGEN 830 830.0.2435 - DIESEL ENGINE



**Sample No:** VCP431700  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 608203 IHFT



## SAMPLE INFORMATION

Sample Number	<b>VCP431700</b>	VCP411149	VCP403675	VCP329532
Sample Date	<b>16 Oct 2023</b>	27 Apr 2023	10 Jan 2023	31 May 2022
Machine Hours	<b>14253</b>	13582	12863	11800
Oil Hours	<b>500</b>	500	500	0
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
 56195 PONTIAC TRAIL  
 NEW HUDSON, MI  
 US 48165  
 Contact: PAUL CONZ  
 paul.conz@altg.com  
 T: (313)348-8861  
 F: (248)356-2029

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	12.9	12.8	13.6
Base Number (BN)	mg KOH/g	<b>6.5</b>	5.7	7.6	8.6
Oxidation (PA)	%	<b>91</b>	80	78	66

## CONTAMINATION

Soot %	%	<b>0.5</b>	0.6	0.9	0.5
Nitration (PA)	%	<b>113</b>	96	99	78
Sulfation (PA)	%	<b>69</b>	59	63	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	5	4
Sodium	ppm	<b>4</b>	3	<1	<1
Potassium	ppm	<b>1</b>	0	1	2

## WEAR METALS

Iron	ppm	<b>38</b>	42	37	19
Copper	ppm	<b>2</b>	1	3	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>6</b>	5	7	4
Chromium	ppm	<b>2</b>	<1	1	<1
Molybdenum	ppm	<b>66</b>	77	73	62
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1230</b>	1455	1477	1585
Magnesium	ppm	<b>1072</b>	1064	721	613
Zinc	ppm	<b>1253</b>	1533	1267	1264
Phosphorus	ppm	<b>1076</b>	1168	1038	1060
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>0</b>	6	8	20

## 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.

**Depot:** VOLVO2990  
**Unique No:** 10729738  
**Signed:** Jonathan Hester  
**Report Date:** 09 Nov 2023



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## GRAPHS

