



# CONSTRUCTION EQUIPMENT

## 703465 IHFT SENNEBOGEN 850 1150 - DIESEL ENGINE



**Sample No:** VCP452794  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 703465 IHFT



### SAMPLE INFORMATION

Sample Number	<b>VCP452794</b>	VCP431420	VCP411130	VCP380632
Sample Date	<b>09 May 2024</b>	28 Nov 2023	27 Apr 2023	03 Jan 2023
Machine Hours	<b>39617</b>	37869	35842	3479
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	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>12.2</b>	12.3	12.4	13.2
Base Number (BN)	mg KOH/g	<b>8.7</b>	7.8	7.2	8.8
Oxidation (PA)	%	<b>67</b>	74	64	58

### 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>0.4</b>	0.8	0.4	0.3
Nitration (PA)	%	<b>75</b>	81	68	58
Sulfation (PA)	%	<b>56</b>	59	52	52
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<b>2.4</b>	<1.0
Silicon	ppm	<b>7</b>	3	2	3
Sodium	ppm	<b>3</b>	0	1	<1
Potassium	ppm	<b>4</b>	2	0	1

### WEAR METALS

Iron	ppm	<b>23</b>	35	23	12
Copper	ppm	<b>8</b>	4	1	1
Lead	ppm	<b>5</b>	14	4	3
Tin	ppm	<b>3</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	1	<1	<1
Chromium	ppm	<b>3</b>	<1	0	<1
Molybdenum	ppm	<b>67</b>	64	65	59
Nickel	ppm	<b>2</b>	0	0	0
Titanium	ppm	<b>3</b>	0	0	0
Silver	ppm	<b>3</b>	0	0	0
Manganese	ppm	<b>3</b>	0	<1	<1
Vanadium	ppm	<b>2</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1233</b>	1121	1165	1142
Magnesium	ppm	<b>757</b>	763	1076	807
Zinc	ppm	<b>1158</b>	1139	1384	1164
Phosphorus	ppm	<b>949</b>	921	1070	963
Barium	ppm	<b>1</b>	3	0	0
Boron	ppm	<b>64</b>	7	0	9

**Depot:** VOLVO2990  
**Unique No:** 11033706  
**Signed:** Jonathan Hester  
**Report Date:** 20 May 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

