



# CONSTRUCTION EQUIPMENT

## W07014085-1 STANLEY VOLVO A35G 340182 - DIESEL ENGINE



**Sample No:** VCP449038  
**Oil Type:** MOBIL 15W40  
**Job No:** W07014085-1 STANLEY



### SAMPLE INFORMATION

Sample Number	<b>VCP449038</b>	VCP409209	VCP339442	VCP401906
Sample Date	<b>05 Jan 2024</b>	12 Oct 2023	21 Mar 2023	21 Feb 2023
Machine Hours	<b>11250</b>	10903	10130	10045
Oil Hours	<b>0</b>	500	35	500
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.9	12.9	12.4
Base Number (BN)	mg KOH/g	<b>5.8</b>	6.3	9.5	7.7
Oxidation (PA)	%	<b>52</b>	54	59	67

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.1	0.2
Nitration (PA)	%	<b>75</b>	73	47	80
Sulfation (PA)	%	<b>50</b>	52	60	54
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	5	5
Sodium	ppm	<b>2</b>	2	0	2
Potassium	ppm	<b>&lt;1</b>	<1	1	2



### WEAR METALS

Iron	ppm	<b>8</b>	3	4	8
Copper	ppm	<b>&lt;1</b>	0	<1	1
Lead	ppm	<b>0</b>	1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>11</b>	8	4	9
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>85</b>	87	104	58
Nickel	ppm	<b>3</b>	2	<1	3
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>2011</b>	2106	1365	1220
Magnesium	ppm	<b>46</b>	97	587	699
Zinc	ppm	<b>1195</b>	1233	779	868
Phosphorus	ppm	<b>1003</b>	1015	647	661
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>46</b>	54	306	33

**Depot:** VOLVO8882  
**Unique No:** 10822416  
**Signed:** Don Baldrige  
**Report Date:** 11 Jan 2024



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## GRAPHS

