



# CONSTRUCTION EQUIPMENT

## W07011941-1 STANLEY VOLVO A45G 342393 - DIESEL ENGINE



**Sample No:** VCP400981  
**Oil Type:** MOBIL 15W40  
**Job No:** W07011941-1 STANLEY



### SAMPLE INFORMATION

Sample Number	<b>VCP400981</b>	VCP401324	VCP388499	VCP354330
Sample Date	<b>16 Jan 2023</b>	13 Jan 2023	28 Oct 2022	22 Jun 2022
Machine Hours	<b>5894</b>	6044	5696	5168
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**McClung-Logan Virginia LLC- RICHMOND**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.8	12.8	▲ 11.9
Base Number (BN)	mg KOH/g	<b>6.7</b>	7.0	7.4	8.8
Oxidation (PA)	%	<b>72</b>	70	55	76

### 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

Soot %	%	<b>0.3</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>93</b>	88	79	69
Sulfation (PA)	%	<b>57</b>	56	55	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	3.4
Silicon	ppm	<b>3</b>	4	4	3
Sodium	ppm	<b>&lt;1</b>	<1	2	2
Potassium	ppm	<b>0</b>	<1	0	0



### WEAR METALS

Iron	ppm	<b>4</b>	8	7	9
Copper	ppm	<b>1</b>	1	2	3
Lead	ppm	<b>0</b>	1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	1	2	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>55</b>	50	31	52
Nickel	ppm	<b>0</b>	<1	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>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1340</b>	1472	2110	1434
Magnesium	ppm	<b>632</b>	647	194	552
Zinc	ppm	<b>852</b>	960	1024	1031
Phosphorus	ppm	<b>660</b>	727	892	844
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>31</b>	31	27	55

**Depot:** VOLVO8882  
**Unique No:** 10299575  
**Signed:** Wes Davis  
**Report Date:** 23 Jan 2023



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## GRAPHS

