



CONSTRUCTION EQUIPMENT

WO7013320-1 STANLEY VOLVO A45G 342201 - DIESEL ENGINE



Sample No: VCP415470
Oil Type: MOBIL 15W40
Job No: WO7013320-1 STANLEY



SAMPLE INFORMATION

Sample Number	VCP415470	VCP399445	VCP395664	VCP378317
Sample Date	24 Aug 2023	03 May 2023	01 Dec 2022	20 Jun 2022
Machine Hours	9033	8572	8000	6812
Oil Hours	0	0	500	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

McClung-Logan Virginia LLC- RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
 Contact: KYLE RATLIFFE
 KRATLIFFE@MCCLUNG-LOGAN.COM
 T:
 F: (804)266-1611



OIL CONDITION

Visc @ 100°C	cSt	12.9	13.2	12.7	▲ 12.3
Base Number (BN)	mg KOH/g	7.9	6.8	6.0	7.2
Oxidation (PA)	%	63	64	86	71



CONTAMINATION

Soot %	%	0.9	0.7	0.9	0.5
Nitration (PA)	%	78	70	104	83
Sulfation (PA)	%	55	53	69	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.2
Silicon	ppm	15	6	4	4
Sodium	ppm	3	2	2	2
Potassium	ppm	1	3	3	0



WEAR METALS

Iron	ppm	17	12	17	15
Copper	ppm	<1	5	3	5
Lead	ppm	0	1	1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	16	7	10	9
Chromium	ppm	1	1	2	1
Molybdenum	ppm	45	30	54	55
Nickel	ppm	<1	1	0	1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1240	1811	1200	1171
Magnesium	ppm	754	393	648	705
Zinc	ppm	933	1149	848	811
Phosphorus	ppm	766	935	593	633
Barium	ppm	0	0	0	0
Boron	ppm	23	33	13	33

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: VOLVO8882
Unique No: 10629130
Signed: Wes Davis
Report Date: 31 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

