



CONSTRUCTION EQUIPMENT

W07013770 STANLEY VOLVO A45G 352347 - DIESEL ENGINE



Sample No: VCP411515
Oil Type: MOBIL 15W40
Job No: W07013770 STANLEY



SAMPLE INFORMATION

Sample Number	VCP411515	VCP409392	VCP338052	---
Sample Date	07 Dec 2023	09 Aug 2023	10 Mar 2023	---
Machine Hours	4089	3526	3538	---
Oil Hours	0	500	600	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND
 1345 MOUNTAIN ROAD
 GLEN ALLEN, VA
 US 23060
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.0	12.8	---
Base Number (BN)	mg KOH/g	6.0	5.9	10.2	---
Oxidation (PA)	%	76	63	80	---

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	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.4	0.3	---
Nitration (PA)	%	96	81	66	---
Sulfation (PA)	%	60	57	61	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	4	5	---
Sodium	ppm	5	2	0	---
Potassium	ppm	0	<1	1	---



WEAR METALS

Iron	ppm	8	13	11	---
Copper	ppm	2	2	1	---
Lead	ppm	0	2	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	49	59	42	---
Nickel	ppm	2	2	2	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1363	2145	1647	---
Magnesium	ppm	681	188	515	---
Zinc	ppm	970	1193	1088	---
Phosphorus	ppm	724	969	897	---
Barium	ppm	0	0	0	---
Boron	ppm	19	22	43	---

Depot: VOLVO8882
Unique No: 10781929
Signed: Wes Davis
Report Date: 13 Dec 2023



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GRAPHS

