



CONSTRUCTION EQUIPMENT

W07013972-1 STANLEY VOLVO A45G 342201 - DIESEL ENGINE



Sample No: VCP409449
Oil Type: MOBIL 15W40
Job No: W07013972-1 STANLEY



SAMPLE INFORMATION

Sample Number	VCP409449	VCP415470	VCP399445	VCP395664
Sample Date	20 Dec 2023	24 Aug 2023	03 May 2023	01 Dec 2022
Machine Hours	9554	9033	8572	8000
Oil Hours	0	0	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.9	13.2	12.7
Base Number (BN)	mg KOH/g	5.9	7.9	6.8	6.0
Oxidation (PA)	%	55	63	64	86

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	NEG
Soot %	%	0.8	0.9	0.7	0.9
Nitration (PA)	%	82	78	70	104
Sulfation (PA)	%	54	55	53	69
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	15	6	4
Sodium	ppm	5	3	2	2
Potassium	ppm	1	1	3	3



WEAR METALS

Iron	ppm	11	17	12	17
Copper	ppm	<1	<1	5	3
Lead	ppm	0	0	1	1
Tin	ppm	0	<1	1	<1
Aluminum	ppm	9	16	7	10
Chromium	ppm	<1	1	1	2
Molybdenum	ppm	68	45	30	54
Nickel	ppm	0	<1	1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1915	1240	1811	1200
Magnesium	ppm	94	754	393	648
Zinc	ppm	1054	933	1149	848
Phosphorus	ppm	827	766	935	593
Barium	ppm	0	0	0	0
Boron	ppm	28	23	33	13

Depot: VOLVO8882
Unique No: 10805140
Signed: Wes Davis
Report Date: 27 Dec 2023



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GRAPHS

