



CONSTRUCTION EQUIPMENT

W07013955-1 STANLEY VOLVO A35G 342021 - DIESEL ENGINE



Sample No: VCP447973
Oil Type: MOBIL 15W40
Job No: W07013955-1 STANLEY



SAMPLE INFORMATION

Sample Number	VCP447973	VCP414579	VCP423662	VCP388173
Sample Date	19 Dec 2023	10 Oct 2023	17 Apr 2023	17 Oct 2022
Machine Hours	8036	7675	0	6772
Oil Hours	0	500	0	0
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	12.1	12.5
Base Number (BN)	mg KOH/g	5.9	6.1	6.1	8.8
Oxidation (PA)	%	54	56	65	72

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 %	%	0.1	0.2	0.2	0.3
Nitration (PA)	%	76	78	73	88
Sulfation (PA)	%	51	52	49	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	6
Sodium	ppm	27	28	1	4
Potassium	ppm	3	6	1	0



WEAR METALS

Iron	ppm	3	9	9	7
Copper	ppm	<1	2	11	1
Lead	ppm	0	2	<1	<1
Tin	ppm	0	1	<1	<1
Aluminum	ppm	3	5	0	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	79	81	60	45
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1971	2095	1265	1245
Magnesium	ppm	28	112	663	665
Zinc	ppm	1167	1225	912	824
Phosphorus	ppm	1009	1007	714	653
Barium	ppm	0	0	0	0
Boron	ppm	44	36	26	17

Depot: VOLVO8882
Unique No: 10803553
Signed: Wes Davis
Report Date: 26 Dec 2023



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GRAPHS

