



CONSTRUCTION EQUIPMENT

634904 BIG SAMS AUTO VOLVO L60H 622712 - DIESEL ENGINE



Sample No: VCP433734
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 634904 BIG SAMS AUTO



SAMPLE INFORMATION

Sample Number	VCP433734	VCP415302	VCP407025	VCP403894
Sample Date	05 Dec 2023	11 Aug 2023	11 May 2023	26 Jan 2023
Machine Hours	2290	1644	1160	680
Oil Hours	500	500	520	680
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
 Contact: PAUL CONZ
 paul.conz@altg.com
 T: (313)348-8861
 F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	13.8	14.8	14.3	12.8
Base Number (BN)	mg KOH/g	8.6	9.2	9.7	9.5
Oxidation (PA)	%	56	55	58	72



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	59	51	53	59
Sulfation (PA)	%	50	50	52	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	18
Sodium	ppm	<1	2	2	2
Potassium	ppm	2	<1	<1	3



WEAR METALS

Iron	ppm	▲ 145	▲ 104	80	85
Copper	ppm	2	1	2	7
Lead	ppm	0	<1	0	1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	1	1	<1	4
Chromium	ppm	2	2	2	4
Molybdenum	ppm	70	59	56	40
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	1	2	2	5
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1349	1085	1186	1519
Magnesium	ppm	859	1007	946	606
Zinc	ppm	1318	1228	1252	1133
Phosphorus	ppm	1123	1006	1011	971
Barium	ppm	3	0	0	<1
Boron	ppm	10	0	8	56

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. All other 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: VOLVO2990
Unique No: 10778845
Signed: Don Baldrige
Report Date: 11 Dec 2023



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GRAPHS

