



CONSTRUCTION EQUIPMENT

593792 BIG SANS AUTO VOLVO L60H 622712 - DIESEL ENGINE



Sample No: VCP415302
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 593792 BIG SANS AUTO



SAMPLE INFORMATION

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

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
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OIL CONDITION

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



CONTAMINATION

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



WEAR METALS

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



ADDITIVES

Calcium	ppm	1085	1186	1519	---
Magnesium	ppm	1007	946	606	---
Zinc	ppm	1228	1252	1133	---
Phosphorus	ppm	1006	1011	971	---
Barium	ppm	0	0	<1	---
Boron	ppm	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. 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: 10608036
Signed: Sean Felton
Report Date: 21 Aug 2023



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GRAPHS

