



CONSTRUCTION EQUIPMENT

594723 VOLVO L60H 623021 - DIESEL ENGINE



Sample No: VCP416066
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 594723



SAMPLE INFORMATION

Sample Number	VCP416066	VCP406258	VCP05761829	---
Sample Date	21 Aug 2023	24 Apr 2023	30 Jan 2023	---
Machine Hours	1808	313	539	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720

OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	12.8	---
Base Number (BN)	mg KOH/g	9.8	9.6	9.8	---
Oxidation (PA)	%	79	61	71	---

CONTAMINATION

Soot %	%	0.2	0.2	0.1	---
Nitration (PA)	%	63	59	57	---
Sulfation (PA)	%	58	53	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	1	15	---
Sodium	ppm	3	2	4	---
Potassium	ppm	0	<1	<1	---

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.

WEAR METALS

Iron	ppm	14	12	19	---
Copper	ppm	2	3	8	---
Lead	ppm	<1	0	2	---
Tin	ppm	2	2	3	---
Aluminum	ppm	3	4	21	---
Chromium	ppm	<1	1	3	---
Molybdenum	ppm	50	60	42	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	4	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	1866	1255	1627	---
Magnesium	ppm	628	1020	556	---
Zinc	ppm	1236	1378	1141	---
Phosphorus	ppm	1022	1136	952	---
Barium	ppm	0	0	<1	---
Boron	ppm	25	0	38	---

Depot: VOLVO0096
Unique No: 10621104
Signed: Wes Davis
Report Date: 28 Aug 2023



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GRAPHS

