



CONSTRUCTION EQUIPMENT

635168 BULK EXP VOLVO L180H 5720 - DIESEL ENGINE



Sample No: VCP434600
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 635168 BULK EXP



SAMPLE INFORMATION

Sample Number	VCP434600	VCP434821	VCP408658	---
Sample Date	07 Nov 2023	13 Sep 2023	20 Jul 2023	---
Machine Hours	1692	1126	593	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	MARGINAL	ABNORMAL	---

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	12.6	12.4	▲ 11.3	---
Base Number (BN)	mg KOH/g	10.2	9.1	5.2	---
Oxidation (PA)	%	80	78	59	---

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

Soot %	%	0.1	0.2	0.1	---
Nitration (PA)	%	55	55	76	---
Sulfation (PA)	%	61	61	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.8	---
Silicon	ppm	7	10	24	---
Sodium	ppm	<1	2	4	---
Potassium	ppm	<1	1	4	---



WEAR METALS

Iron	ppm	4	8	16	---
Copper	ppm	5	▲ 50	▲ 331	---
Lead	ppm	1	<1	<1	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	<1	<1	2	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	42	46	82	---
Nickel	ppm	<1	1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1572	1728	2022	---
Magnesium	ppm	550	435	22	---
Zinc	ppm	1151	1152	1178	---
Phosphorus	ppm	973	935	960	---
Barium	ppm	0	0	0	---
Boron	ppm	36	35	43	---

Depot: VOLVO0096
Unique No: 10739027
Signed: Wes Davis
Report Date: 14 Nov 2023



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GRAPHS

