



CONSTRUCTION EQUIPMENT

SPM702824 RENTAL - DIESEL ENGINE



Sample No: VCP454797
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM702824 RENTAL



SAMPLE INFORMATION

Sample Number	VCP454797	VCP351646	---	---
Sample Date	29 Apr 2024	27 Apr 2023	---	---
Machine Hours	1209	484	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ATTENTION	---	---

ALTA EQUIPMENT COMPANY
 5210 REESE ROAD
 DAVIE, FL
 US 33314
 Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318



OIL CONDITION

Visc @ 100°C	cSt	12.0	10.0	---	---
Base Number (BN)	mg KOH/g	6.2	4.5	---	---
Oxidation (PA)	%	89	60	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	85	81	---	---
Sulfation (PA)	%	64	53	---	---
Glycol	%	NEG	0.0	---	---
Fuel	%	<1.0	1.1	---	---
Silicon	ppm	9	22	---	---
Sodium	ppm	4	2	---	---
Potassium	ppm	<1	<1	---	---



WEAR METALS

Iron	ppm	9	11	---	---
Copper	ppm	71	201	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	2	1	---	---
Aluminum	ppm	2	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	51	67	---	---
Nickel	ppm	2	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	2	3	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	1808	1755	---	---
Magnesium	ppm	412	31	---	---
Zinc	ppm	1018	915	---	---
Phosphorus	ppm	867	748	---	---
Barium	ppm	0	0	---	---
Boron	ppm	14	19	---	---

Depot: VOLVO0095
Unique No: 11008798
Signed: Jonathan Hester
Report Date: 06 May 2024



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GRAPHS

