



CONSTRUCTION EQUIPMENT

595599 MADOR CONTRAC VOLVO ECR145E 311546 - DIESEL ENGINE



Sample No: VCP416958
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 595599 MADOR CONTRAC



SAMPLE INFORMATION

Sample Number	VCP416958	VCP329529	---	---
Sample Date	12 Sep 2023	02 Dec 2021	---	---
Machine Hours	4054	2909	---	---
Oil Hours	600	500	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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



OIL CONDITION

Visc @ 100°C	cSt	13.6	12.97	---	---
Viscosity Index (VI)	Scale	---	133	---	---
Base Number (BN)	mg KOH/g	10.2	11.3	---	---
Oxidation (PA)	%	82	80	---	---

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 %	%	0.5	0.3	---	---
Nitration (PA)	%	76	59	---	---
Sulfation (PA)	%	60	62	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	8	20	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	1	<1	---	---



WEAR METALS

Iron	ppm	38	69	---	---
Copper	ppm	5	3	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	1	1	---	---
Aluminum	ppm	8	6	---	---
Chromium	ppm	1	2	---	---
Molybdenum	ppm	46	38	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	1956	1760	---	---
Magnesium	ppm	590	526	---	---
Zinc	ppm	1299	1104	---	---
Phosphorus	ppm	1033	1000	---	---
Barium	ppm	0	0	---	---
Boron	ppm	34	53	---	---

Depot: VOLVO2990
Unique No: 10649629
Signed: Wes Davis
Report Date: 20 Sep 2023



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GRAPHS

