



CONSTRUCTION EQUIPMENT

41782 COVIA - DIESEL ENGINE



Sample No: VCP453791
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 41782 COVIA



SAMPLE INFORMATION

Sample Number	VCP453791	VCP337085	VCP239710	VCP152667
Sample Date	20 May 2024	23 Sep 2021	24 Apr 2020	03 Apr 2014
Machine Hours	4333	3040	0	24473
Oil Hours	0	0	500	0
Oil Changed	Changed	N/A	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

215 - ASCENDUM MACHINERY INC - CAYCE
 2303 AIRPORT BLVD
 CAYCE, SC
 US 29033
 Contact: TAMI BROWDER



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.2	13.3	12.45
Base Number (BN)	mg KOH/g	9.0	---	---	---
Oxidation (PA)	%	82	82	82	56

T: (803)923-2138
 F: (803)791-9920

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	0.1
Nitration (PA)	%	73	59	66	58
Sulfation (PA)	%	67	65	65	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	8	2
Sodium	ppm	2	<1	3	5
Potassium	ppm	3	<1	2	<1



WEAR METALS

Iron	ppm	19	8	17	22
Copper	ppm	18	4	7	2
Lead	ppm	9	3	8	1
Tin	ppm	3	1	0	<1
Aluminum	ppm	5	5	4	4
Chromium	ppm	1	<1	2	<1
Molybdenum	ppm	96	62	75	38
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1691	1634	1882	1128
Magnesium	ppm	584	543	667	661
Zinc	ppm	1186	969	904	949
Phosphorus	ppm	948	850	754	833
Barium	ppm	0	0	0	0
Boron	ppm	260	134	148	42

Depot: VOLVO0013
Unique No: 11045508
Signed: Sean Felton
Report Date: 28 May 2024



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GRAPHS

