



CONSTRUCTION EQUIPMENT

VOLVO A40G 342176 - DIESEL ENGINE



Sample No: VCP411547
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP411547	VCP424482	VCP310784	VCP300158
Sample Date	01 Aug 2023	09 May 2023	09 Apr 2021	28 Dec 2020
Machine Hours	0	0	5949	5299
Oil Hours	0	0	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	SEVERE	ABNORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.4	12.5	12.8
Base Number (BN)	mg KOH/g	10.1	9.9	---	---
Oxidation (PA)	%	81	72	82	84

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	0.1	0.4	0.3
Nitration (PA)	%	62	68	98	73
Sulfation (PA)	%	61	57	70	65
Glycol	%	NEG	NEG	0.12	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	11	6	7
Sodium	ppm	0	3	555	222
Potassium	ppm	4	9	831	145



WEAR METALS

Iron	ppm	14	31	9	9
Copper	ppm	<1	1	1	1
Lead	ppm	<1	1	<1	3
Tin	ppm	<1	1	<1	0
Aluminum	ppm	4	3	0	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	49	44	119	54
Nickel	ppm	<1	1	<1	<1
Titanium	ppm	1	8	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1941	1557	1437	1782
Magnesium	ppm	588	537	499	532
Zinc	ppm	1294	1094	920	1136
Phosphorus	ppm	1111	932	753	984
Barium	ppm	2	0	0	0
Boron	ppm	35	32	15	24

Depot: RIPTAM
Unique No: 10607040
Signed: Wes Davis
Report Date: 18 Aug 2023



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GRAPHS

