



CONSTRUCTION EQUIPMENT

729036 VOLVO A40G 342177 - DIESEL ENGINE



Sample No: VCP443005
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 729036



SAMPLE INFORMATION

Sample Number	VCP443005	VCP437095	VCP417568	VCP358089
Sample Date	06 Jun 2024	11 Mar 2024	29 Jun 2023	12 Sep 2022
Machine Hours	11658	11138	10619	9334
Oil Hours	500	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	11.8	12.1	12.7	13.0
Base Number (BN)	mg KOH/g	9.8	9.7	9.2	11.0
Oxidation (PA)	%	72	76	79	87

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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	NEG	NEG
Soot %	%	0.2	0.2	0.5	0.5
Nitration (PA)	%	55	57	69	72
Sulfation (PA)	%	58	59	60	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.4	0.4	<1.0	<1.0
Silicon	ppm	3	5	3	6
Sodium	ppm	4	5	6	6
Potassium	ppm	<1	4	0	4



WEAR METALS

Iron	ppm	6	16	9	9
Copper	ppm	2	10	<1	1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	7	6	8
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	48	46	42
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1547	1667	1738	1696
Magnesium	ppm	528	500	537	487
Zinc	ppm	1017	1131	1119	1088
Phosphorus	ppm	908	981	952	913
Barium	ppm	0	0	0	0
Boron	ppm	46	55	31	24

Depot: RIPTAM
Unique No: 11126336
Signed: Sean Felton
Report Date: 18 Jul 2024



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VOLVO GRAPHS

