



CONSTRUCTION EQUIPMENT

VOLVO A30G 752302 - DIESEL ENGINE



Sample No: VCP443009
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP443009	VCP449211	VCP432445	VCP414634
Sample Date	12 Jun 2024	29 Jan 2024	23 Oct 2023	01 Sep 2023
Machine Hours	5450	4786	4260	4098
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.3	12.4	12.2
Base Number (BN)	mg KOH/g	8.8	9.6	9.6	9.6
Oxidation (PA)	%	83	80	79	78

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.5	0.3	0.3	0.4
Nitration (PA)	%	74	63	65	65
Sulfation (PA)	%	62	62	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	4	4
Sodium	ppm	2	0	2	0
Potassium	ppm	<1	1	2	1



WEAR METALS

Iron	ppm	11	9	6	6
Copper	ppm	2	4	2	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	5	2	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	42	47	46
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1811	1700	1629	1500
Magnesium	ppm	572	510	510	495
Zinc	ppm	1211	1178	1119	1077
Phosphorus	ppm	1048	860	923	901
Barium	ppm	0	5	0	1
Boron	ppm	23	38	28	21

Depot: RIPTAM
Unique No: 11084090
Signed: Wes Davis
Report Date: 19 Jun 2024



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GRAPHS

