



CONSTRUCTION EQUIPMENT

VOLVO A30G 752143 - DIESEL ENGINE



Sample No: VCP454417
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454417	VCP407850	VCP424503	VCP396762
Sample Date	12 Jan 2024	16 Jun 2023	06 Jun 2023	04 Mar 2023
Machine Hours	5963	4995	10602	4274
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ABNORMAL	NORMAL

RIPA AND ASSOCIATES

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

Visc @ 100°C	cSt	▲ 12.4	■ 12.8	▲ 11.0	■ 12.3
Base Number (BN)	mg KOH/g	■ 9.4	■ 9.3	■ 9.5	■ 9.4
Oxidation (PA)	%	77	82	73	80

Diagnosis

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 %	%	■ 0.3	■ 0.4	■ 0.3	■ 0.3
Nitration (PA)	%	67	78	65	66
Sulfation (PA)	%	60	62	58	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.4	<1.0	▲ 4.7	■ 0.5
Silicon	ppm	■ 5	■ 3	■ 3	■ 4
Sodium	ppm	■ 0	■ 2	■ 1	■ 2
Potassium	ppm	■ 2	■ 2	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 7	■ 5	■ 4	■ 8
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ <1
Aluminum	ppm	■ 2	■ 6	■ <1	■ 3
Chromium	ppm	■ <1	■ 0	■ 0	■ <1
Molybdenum	ppm	■ 45	■ 52	■ 37	■ 42
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	7	6	3
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ 0	■ 0	■ <1	■ 1
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	■ 1796	■ 2090	■ 1551	■ 1593
Magnesium	ppm	■ 447	■ 637	■ 414	■ 488
Zinc	ppm	■ 1167	■ 1376	■ 1008	■ 1054
Phosphorus	ppm	■ 888	■ 1168	■ 836	■ 849
Barium	ppm	■ 5	■ 12	■ 0	■ 0
Boron	ppm	■ 39	■ 35	■ 37	■ 39

Depot: RIPTAM
Unique No: 10863254
Signed: Don Baldrige
Report Date: 08 Feb 2024



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VOLVO GRAPHS

