



CONSTRUCTION EQUIPMENT

687813 VOLVO A30G 752847 - DIESEL ENGINE



Sample No: VCP449206
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687813



SAMPLE INFORMATION

Sample Number	VCP449206	VCP407822	VCP392536	VCP384937
Sample Date	16 Mar 2024	09 Jun 2023	15 Mar 2023	15 Nov 2022
Machine Hours	3292	1668	1063	484
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
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 US 33619
 Contact: PM Services
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OIL CONDITION

Visc @ 100°C	cSt	■ 12.8	■ 12.6	● 11.9	● 10.6
Base Number (BN)	mg KOH/g	■ 9.4	■ 8.7	■ 8.3	■ 7.2
Oxidation (PA)	%	74	85	82	63

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 %	%	■ 0.3	■ 0.5	■ 0.4	■ 0.3
Nitration (PA)	%	63	80	74	88
Sulfation (PA)	%	58	65	64	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	■ 0.4	■ 0.5
Silicon	ppm	■ 4	■ 4	■ 8	■ 41
Sodium	ppm	■ 2	■ 2	■ 2	■ 4
Potassium	ppm	■ 2	■ 0	■ <1	■ 3

WEAR METALS

Iron	ppm	■ 7	■ 12	■ 15	■ 28
Copper	ppm	■ 2	■ 22	▲ 149	▲ 437
Lead	ppm	■ <1	■ <1	■ 0	■ 6
Tin	ppm	■ <1	■ 1	■ 1	■ 3
Aluminum	ppm	■ 5	■ 1	■ 1	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 40	■ 39	■ 69	■ 82
Nickel	ppm	■ 1	■ <1	■ 2	■ 4
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	■ <1	■ <1	■ 2
Manganese	ppm	■ 1	■ <1	■ 2	■ 5
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	■ 1817	■ 1660	■ 1816	■ 2089
Magnesium	ppm	■ 526	■ 424	■ 500	■ 65
Zinc	ppm	■ 1184	■ 1049	■ 1201	■ 1173
Phosphorus	ppm	■ 1049	■ 845	■ 968	■ 947
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 47	■ 17	■ 26	■ 27

Depot: RIPTAM
Unique No: 11018407
Signed: Wes Davis
Report Date: 09 May 2024



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GRAPHS

