



CONSTRUCTION EQUIPMENT

VOLVO A30G 752326 - DIESEL ENGINE



Sample No: VCP425841
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP425841	VCP393522	VCP386177	VCP362323
Sample Date	06 Jun 2023	08 Mar 2023	18 Nov 2022	12 Aug 2022
Machine Hours	5591	3043	2471	2015
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	MARGINAL	NORMAL	NORMAL

RIPA AND ASSOCIATES
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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.7	▲ 12.4	■ 12.8	■ 12.9
Base Number (BN)	mg KOH/g	■ 9.4	■ 8.7	■ 11.0	■ 11.0
Oxidation (PA)	%	72	79	84	84

CONTAMINATION

Soot %	%	■ 0.3	■ 0.4	■ 0.3	■ 0.3
Nitration (PA)	%	65	69	65	67
Sulfation (PA)	%	58	61	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	● 6.5	■ 0.4	<1.0	<1.0
Silicon	ppm	■ 2	■ 2	■ 4	■ 4
Sodium	ppm	■ 2	■ 0	■ 2	■ 2
Potassium	ppm	■ 2	■ 2	■ 0	■ 0

WEAR METALS

Iron	ppm	■ 0	■ 8	■ 6	■ 6
Copper	ppm	■ 0	■ 2	■ <1	■ 2
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ 0	■ <1	■ <1	■ 0
Aluminum	ppm	■ 6	■ 2	■ <1	■ <1
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 46	■ 73	■ 41	■ 45
Nickel	ppm	■ 0	■ <1	■ <1	■ 0
Titanium	ppm	6	<1	5	0
Silver	ppm	■ 0	■ 0	■ 0	<1
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	■ 1949	■ 1764	■ 1630	■ 1632
Magnesium	ppm	■ 513	■ 457	■ 544	■ 509
Zinc	ppm	■ 1271	■ 1151	■ 1159	■ 1083
Phosphorus	ppm	■ 1052	■ 946	■ 904	■ 894
Barium	ppm	■ 12	■ 2	■ 0	■ 0
Boron	ppm	■ 49	■ 28	■ 35	■ 27

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: RIPTAM
Unique No: 10551652
Signed: Wes Davis
Report Date: 13 Jul 2023

VOLVO GRAPHS

