



CONSTRUCTION EQUIPMENT

658711 VOLVO A30G 742060 - DIESEL ENGINE



Sample No: VCP440617
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 658711



SAMPLE INFORMATION

Sample Number	VCP440617	VCP392940	VCP399503	VCP375334
Sample Date	06 Jan 2024	24 Jul 2023	13 Dec 2022	26 Sep 2022
Machine Hours	9195	8648	8120	7673
Oil Hours	500	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	▲ 12.1	▲ 11.4	▲ 11.6
Base Number (BN)	mg KOH/g	■ 8.6	■ 8.9	■ 9.0	■ 8.5
Oxidation (PA)	%	70	81	74	68

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.3	■ 0.3	■ 0.3
Nitration (PA)	%	68	67	66	61
Sulfation (PA)	%	55	60	58	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.2	<1.0	<1.0	<1.0
Silicon	ppm	■ 4	■ 4	■ 3	■ 5
Sodium	ppm	■ 2	■ 0	■ 2	■ 3
Potassium	ppm	■ 0	■ 1	■ 0	■ 2

WEAR METALS

Iron	ppm	■ 3	■ 6	■ 4	■ 4
Copper	ppm	■ 2	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ <1	■ 2	■ <1	■ 3
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 52	■ 46	■ 46	■ 34
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	<1	<1	6
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	1

ADDITIVES

Calcium	ppm	■ 1690	■ 1468	■ 1556	■ 1251
Magnesium	ppm	■ 374	■ 463	■ 470	■ 495
Zinc	ppm	■ 1093	■ 1028	■ 1052	■ 1021
Phosphorus	ppm	■ 939	■ 857	■ 846	■ 844
Barium	ppm	■ 0	■ 2	■ 0	■ 0
Boron	ppm	■ 39	■ 34	■ 29	■ 16

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: RIPTAM
Unique No: 10861617
Signed: Jonathan Hester
Report Date: 07 Feb 2024



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GRAPHS

