



CONSTRUCTION EQUIPMENT

TRIPLE M 390112 VOLVO A30G 752850 - DIESEL ENGINE



Sample No: VCP391613
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 390112



SAMPLE INFORMATION

Sample Number	VCP391613	VCP380143	VCP391692	VCP381008
Sample Date	09 Jan 2024	06 Oct 2023	17 Jul 2023	10 Mar 2023
Machine Hours	5625	4419	0	1634
Oil Hours	0	0	1000	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	■ 12.6	■ 12.5	■ 12.5
Oxidation (PA)	%	81	88	88	82

CONTAMINATION

Water	%	■ 0.112	NEG	NEG	NEG
Soot %	%	■ 0	■ 0.1	■ 0.1	■ 0
Nitration (PA)	%	61	68	68	54
Sulfation (PA)	%	63	64	65	70
Glycol	%	■ 0.0	NEG	NEG	NEG
Fuel	%	■ 1.5	<1.0	<1.0	<1.0
Silicon	ppm	■ 3	■ 4	■ 4	■ 3
Sodium	ppm	■ 2	■ 2	■ 2	■ 2
Potassium	ppm	■ <1	■ 0	■ <1	■ 0

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. The water content is negligible. No other contaminants were detected in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	■ 6	■ 10	■ 9	■ 5
Copper	ppm	■ <1	■ 2	■ 3	■ 11
Lead	ppm	■ 0	■ <1	■ 0	■ <1
Tin	ppm	■ 0	■ <1	■ <1	■ <1
Aluminum	ppm	■ 3	■ 1	■ <1	■ 1
Chromium	ppm	■ <1	■ 0	■ <1	■ 0
Molybdenum	ppm	■ 37	■ 43	■ 42	■ 43
Nickel	ppm	■ <1	■ 0	■ 0	■ <1
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	■ <1	■ <1	■ <1
Manganese	ppm	■ 0	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1888	■ 1658	■ 1633	■ 1772
Magnesium	ppm	■ 451	■ 554	■ 549	■ 535
Zinc	ppm	■ 1123	■ 1102	■ 1103	■ 1098
Phosphorus	ppm	■ 958	■ 940	■ 998	■ 1026
Barium	ppm	■ 0	■ <1	■ 0	■ 0
Boron	ppm	■ 48	■ 25	■ 25	■ 47

Depot: VOLVO0252
Unique No: 5708786
Signed: Kevin Marson
Report Date: 11 Jan 2024

VOLVO GRAPHS

