



CONSTRUCTION EQUIPMENT

VOLVO A45G 352341 - DIESEL ENGINE



Sample No: VCP426957
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP426957	VCP355699	VCP356142	VCP333454
Sample Date	30 Jun 2023	23 Jun 2022	22 Mar 2022	26 Jan 2022
Machine Hours	4913	3126	2735	2505
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
 Contact: TODD LARK
 tlark@altaequipfl.com
 T:
 F: (239)481-3302

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.1	■ 13.3	■ 13.7	11.2
Base Number (BN)	mg KOH/g	■ 8.7	■ 8.6	■ 9.0	■ 10.2
Oxidation (PA)	%	53	73	62	88

CONTAMINATION

Soot %	%	■ 0.4	■ 0.5	■ 0.2	■ 0.5
Nitration (PA)	%	74	83	69	78
Sulfation (PA)	%	53	61	55	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.4	<1.0	<1.0	■ 0.3
Silicon	ppm	■ 4	■ 4	■ 4	■ 8
Sodium	ppm	■ 1	■ 5	■ 2	■ 2
Potassium	ppm	■ 3	■ 0	■ 0	■ <1

WEAR METALS

Iron	ppm	■ 9	■ 6	■ 2	■ 11
Copper	ppm	■ 3	■ 2	■ 1	■ 11
Lead	ppm	■ 2	■ 1	■ <1	■ <1
Tin	ppm	■ 1	■ 1	■ 0	■ <1
Aluminum	ppm	■ <1	■ 2	■ 2	■ 7
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 59	■ 57	■ 73	■ 43
Nickel	ppm	■ <1	■ 1	■ 0	■ 2
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 2	■ 0	■ 0
Manganese	ppm	■ 1	■ <1	■ <1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	■ 1514	■ 1400	■ 1888	■ 1900
Magnesium	ppm	871	■ 684	■ 210	■ 512
Zinc	ppm	■ 1126	■ 1162	■ 1034	■ 996
Phosphorus	ppm	■ 933	■ 936	■ 933	■ 831
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 38	■ 15	■ 85	■ 39

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Tests indicate that there is no fuel present in the oil. 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.

Depot: VOLVO0090
Unique No: 10546915
Signed: Sean Felton
Report Date: 07 Jul 2023



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GRAPHS

