



CONSTRUCTION EQUIPMENT

716 VOLVO A25F 73406 - DIESEL ENGINE



Sample No: VCP296799
Oil Type: PHILLIPS 66 15W40
Job No: 716



SAMPLE INFORMATION

Sample Number	VCP296799	VCP376991	VCP340086	VCP325699
Sample Date	09 Nov 2023	04 Nov 2022	06 May 2022	23 Sep 2021
Machine Hours	10499	9982	9501	9001
Oil Hours	517	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

WELLONS CONSTRUCTION
 510 N POWELL AVE
 DUNN, NC
 US 28334
 Contact: GREG WRENCH

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	▲ 11.4	▲ 11.8	▲ 11.3
Base Number (BN)	mg KOH/g	■ 6.6	■ 5.9	■ 6.9	---
Oxidation (PA)	%	65	88	68	85

T: (910)892-6630
 F: (910)892-3046

Diagnosis

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 moderate 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. The oil is no longer serviceable due to the presence of contaminants.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.2	■ 0.1	■ 0.1
Nitration (PA)	%	75	94	74	73
Sulfation (PA)	%	58	73	57	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 5.5	▲ 5.8	▲ 5.6	▲ 5.6
Silicon	ppm	■ 6	■ 8	■ 4	■ 8
Sodium	ppm	■ 2	■ 2	■ 1	■ 3
Potassium	ppm	■ 4	■ 4	■ 3	■ 6

WEAR METALS

Iron	ppm	■ 12	■ 15	■ 9	■ 9
Copper	ppm	■ 2	■ 2	■ 1	■ <1
Lead	ppm	■ 1	■ 6	■ <1	■ 0
Tin	ppm	■ <1	■ <1	■ <1	■ 0
Aluminum	ppm	■ 3	■ 4	■ 3	■ 3
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	18	15	■ 13	35
Nickel	ppm	■ 1	■ 0	■ 0	■ 1
Titanium	ppm	■ 76	■ 74	■ 65	7
Silver	ppm	■ 0	0	0	0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	■ <1	<1	<1	0

ADDITIVES

Calcium	ppm	■ 1701	■ 1723	■ 1777	■ 1761
Magnesium	ppm	■ 393	373	416	■ 523
Zinc	ppm	■ 1170	■ 1082	■ 1262	■ 1085
Phosphorus	ppm	■ 984	■ 880	■ 1066	■ 912
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 137	35	■ 90	28

Depot: WELDUN
Unique No: 10751255
Signed: Wes Davis
Report Date: 22 Nov 2023



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VOLVO GRAPHS

