



CONSTRUCTION EQUIPMENT

VOLVO A25F 73405 - DIESEL ENGINE



Sample No: VCP362650
Oil Type: PHILLIPS 66 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP362650	VCP335825	VCP378524	VCP335810
Sample Date	24 May 2024	14 Feb 2023	24 Jun 2022	22 Nov 2021
Machine Hours	11865	11336	10796	10272
Oil Hours	529	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	▲ 12.0	▲ 11.9	▲ 12.0	▲ 12.3
Base Number (BN)	mg KOH/g	■ 6.8	■ 6.9	■ 6.7	---
Oxidation (PA)	%	63	62	65	59

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 %	%	■ 0.2	■ 0.2	■ 0.1	■ 0.1
Nitration (PA)	%	74	77	78	78
Sulfation (PA)	%	55	56	57	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.8	▲ 4.6	▲ 5.7	▲ 5.1
Silicon	ppm	■ 6	■ 3	■ 4	■ 5
Sodium	ppm	■ 5	■ 1	■ 3	■ 1
Potassium	ppm	■ <1	■ 2	■ 3	■ 0



WEAR METALS

Iron	ppm	■ 18	■ 6	■ 6	■ 8
Copper	ppm	■ <1	■ 0	■ <1	■ 1
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ 5	■ 2	■ 3	■ 2
Chromium	ppm	■ 0	■ 0	■ <1	■ 0
Molybdenum	ppm	15	■ 7	■ 5	■ 8
Nickel	ppm	■ 0	■ 0	■ <1	■ 0
Titanium	ppm	■ 76	■ 79	■ 79	■ 80
Silver	ppm	■ 0	■ 0	0	0
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	■ <1	0	<1	2



ADDITIVES

Calcium	ppm	■ 1674	■ 1630	■ 1755	■ 1681
Magnesium	ppm	■ 394	■ 358	403	385
Zinc	ppm	■ 1173	■ 1116	■ 1185	■ 1024
Phosphorus	ppm	■ 1022	■ 952	■ 961	■ 975
Barium	ppm	■ 0	■ <1	■ 0	■ 0
Boron	ppm	■ 152	■ 110	■ 108	■ 94

Depot: WELDUN
Unique No: 11058636
Signed: Wes Davis
Report Date: 05 Jun 2024



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VOLVO GRAPHS

