



CONSTRUCTION EQUIPMENT

S50402072 AM WRECK VOLVO EC750 314007 - DIESEL ENGINE



Sample No: VCP435902
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: S50402072 AM WRECK



SAMPLE INFORMATION

Sample Number	VCP435902	VCP344651	VCP314891	VCP297459
Sample Date	18 Dec 2023	06 Oct 2021	28 Apr 2021	03 Nov 2020
Machine Hours	3642	1689	1277	683
Oil Hours	0	0	0	683
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	SEVERE	NORMAL	NORMAL	ABNORMAL

VCES- VOLVO CONSTRUCTION EQUIPMENT
 22099 KNABE ROAD
 CORONA, CA
 US 92883
 Contact: OSCAR DEL CAMPO
 oscar.delcampo@vcesvolvo.com
 T: (951)277-7620
 F: (951)277-4550



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	■ 12.8	■ 12.8	■ 13.0
Base Number (BN)	mg KOH/g	■ 6.6	---	---	---
Oxidation (PA)	%	54	88	90	65



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.3	■ 0.3	■ 0.4
Nitration (PA)	%	40	67	75	70
Sulfation (PA)	%	55	65	67	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	◆ 10.2	<1.0	<1.0	<1.0
Silicon	ppm	■ 7	■ 5	■ 10	■ 23
Sodium	ppm	■ 2	■ 1	■ 3	■ 2
Potassium	ppm	■ 2	■ <1	■ 0	■ 2



WEAR METALS

Iron	ppm	■ 3	■ 10	■ 16	■ 30
Copper	ppm	■ 5	■ 4	■ 10	▲ 52
Lead	ppm	■ 0	■ 1	■ 1	■ 2
Tin	ppm	■ <1	■ 2	■ <1	■ 4
Aluminum	ppm	■ 2	■ 6	■ 2	■ <1
Chromium	ppm	■ <1	■ 1	■ 1	■ 2
Molybdenum	ppm	■ 71	■ 39	■ 36	■ 12
Nickel	ppm	■ <1	■ 1	■ 2	■ 4
Titanium	ppm	■ <1	■ <1	■ 1	■ 10
Silver	ppm	■ 0	0	0	0
Manganese	ppm	■ 0	■ <1	■ <1	■ 1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	■ 1333	■ 1675	■ 1701	■ 2325
Magnesium	ppm	■ 385	■ 476	■ 461	■ 151
Zinc	ppm	■ 1046	■ 1060	■ 1032	■ 1082
Phosphorus	ppm	■ 898	■ 852	■ 900	■ 933
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 297	■ 29	■ 30	■ 19

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. 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.

Depot: VOLVO4486
Unique No: 10796592
Signed: Jonathan Hester
Report Date: 27 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

