



CONSTRUCTION EQUIPMENT

X48285 VOLVO EC350EL 310659 - DIESEL ENGINE



Sample No: VCP435974
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X48285



SAMPLE INFORMATION

Sample Number	VCP435974	VCP416453	VCP378232	VCP391025
Sample Date	22 Dec 2023	21 Jul 2023	07 Feb 2023	27 Oct 2022
Machine Hours	7067	6117	4999	4170
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

SCOTT EQUIPMENT COMPANY LLC - Lake Charles
 PO BOX 16955
 LAKE CHARLES, LA
 US 70616
 Contact: TINA LEDOUX
 tledoux@scottcompanies.com
 T: (337)433-9811
 F: (318)433-6623



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	▲ 11.9	▲ 12.2	11.8
Base Number (BN)	mg KOH/g	■ 6.8	■ 6.3	■ 7.0	■ 7.8
Oxidation (PA)	%	66	73	67	73

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	72	75	73	77
Sulfation (PA)	%	56	58	55	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	■ 0.5
Silicon	ppm	■ 7	■ 8	■ 9	■ 8
Sodium	ppm	■ 4	■ 4	■ 3	■ 5
Potassium	ppm	■ <1	■ 0	■ 0	■ 2



WEAR METALS

Iron	ppm	■ 5	■ 8	■ 8	■ 6
Copper	ppm	■ 2	■ 2	■ 2	■ 4
Lead	ppm	■ <1	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 4	■ 1	■ <1	■ <1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 286	■ 311	■ 273	295
Nickel	ppm	■ <1	■ 0	■ <1	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	0
Manganese	ppm	■ <1	■ <1	■ <1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 1049	■ 1153	■ 1043	■ 1100
Magnesium	ppm	■ 979	■ 1022	■ 903	■ 920
Zinc	ppm	■ 1283	■ 1307	■ 1166	■ 1203
Phosphorus	ppm	■ 1106	■ 1130	■ 974	■ 1087
Barium	ppm	■ 0	■ <1	■ 0	■ 0
Boron	ppm	■ 7	■ 8	■ 0	■ <1

Depot: VOLVO6244
Unique No: 10809267
Signed: Don Baldrige
Report Date: 03 Jan 2024



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GRAPHS

