



CONSTRUCTION EQUIPMENT

X48283 VOLVO EC350EL 314367 - DIESEL ENGINE



Sample No: VCP435975
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X48283



SAMPLE INFORMATION

Sample Number	VCP435975	VCP407271	VCP391126	VCP379435
Sample Date	22 Dec 2023	28 Apr 2023	13 Jan 2023	19 Aug 2022
Machine Hours	3826	2468	1716	564
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	ATTENTION	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	■ 12.4	■ 12.6	10.4
Base Number (BN)	mg KOH/g	■ 7.8	■ 7.0	■ 9.0	■ 6.4
Oxidation (PA)	%	87	82	84	73



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	79	76	74	93
Sulfation (PA)	%	62	56	62	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 0.4	<1.0	<1.0
Silicon	ppm	■ 12	■ 6	■ 6	■ 24
Sodium	ppm	■ 4	■ 2	■ 2	■ <1
Potassium	ppm	■ <1	■ 0	■ 0	■ 3



WEAR METALS

Iron	ppm	■ 8	■ 5	■ 5	■ 12
Copper	ppm	■ 5	■ 8	■ 18	▲ 221
Lead	ppm	■ 1	■ 0	■ <1	■ 1
Tin	ppm	■ 1	■ 1	■ 1	■ 3
Aluminum	ppm	■ 2	■ <1	■ <1	■ 3
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 44	■ 59	■ 54	■ 83
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	■ 0	0
Silver	ppm	■ 0	■ 0	■ 0	<1
Manganese	ppm	■ 1	■ <1	■ <1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1650	■ 1807	■ 1894	■ 2216
Magnesium	ppm	■ 603	■ 586	■ 546	■ 71
Zinc	ppm	■ 1218	■ 1113	■ 1150	■ 1208
Phosphorus	ppm	■ 1015	■ 971	■ 944	■ 992
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 15	■ 17	■ 27	■ 23

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.

Depot: VOLVO6244
Unique No: 10809266
Signed: Don Baldrige
Report Date: 03 Jan 2024



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GRAPHS

