



CONSTRUCTION EQUIPMENT

VOLVO EC300EL 313148 - DIESEL ENGINE



Sample No: VCP412084
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP412084	VCP294682	VCP294659	VCP281597
Sample Date	25 Oct 2023	15 Feb 2021	23 Dec 2020	11 Nov 2020
Machine Hours	6401	1909	1445	1161
Oil Hours	292	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

CITY CARTING
 221 OLD GATE LN
 MILFORD, CT
 US 06460
 Contact: TAVINS BANKS
 tavins@citycart.net
 T: (203)223-3885
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	▲ 11.2	█ 12.6	█ 12.5
Base Number (BN)	mg KOH/g	█ 7.2	---	---	---
Oxidation (PA)	%	█ 47	45	43	39

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.1	█ 0.1
Nitration (PA)	%	█ 53	62	59	53
Sulfation (PA)	%	█ 47	51	50	48
Glycol	%	█ NEG	NEG	NEG	NEG
Fuel	%	█ <1.0	█ 0.3	<1.0	<1.0
Silicon	ppm	█ 13	█ 10	█ 11	█ 13
Sodium	ppm	█ 1	█ 2	█ 2	█ 2
Potassium	ppm	█ 1	█ 3	█ 6	█ 0

WEAR METALS

Iron	ppm	█ 5	█ 9	█ 11	█ 6
Copper	ppm	█ <1	█ 1	█ 1	█ 1
Lead	ppm	█ 0	█ <1	█ <1	█ 0
Tin	ppm	█ 0	█ <1	█ 1	█ 0
Aluminum	ppm	█ 3	█ 5	█ 7	█ 4
Chromium	ppm	█ 0	█ <1	█ 1	█ <1
Molybdenum	ppm	█ 50	█ 46	█ 23	█ 20
Nickel	ppm	█ 0	█ <1	█ <1	█ <1
Titanium	ppm	█ 0	█ 0	█ <1	█ <1
Silver	ppm	█ 0	0	<1	<1
Manganese	ppm	█ <1	█ 0	█ <1	█ <1
Vanadium	ppm	█ 0	0	0	0

ADDITIVES

Calcium	ppm	█ 1723	█ 2131	█ 2294	█ 2315
Magnesium	ppm	█ 268	163	157	149
Zinc	ppm	█ 959	█ 1048	█ 1113	█ 1026
Phosphorus	ppm	█ 871	█ 893	█ 936	█ 925
Barium	ppm	█ 4	█ 0	█ 0	█ 0
Boron	ppm	█ 30	█ 28	█ 20	█ 18

Depot: CITMILCON
Unique No: 10715334
Signed: Wes Davis
Report Date: 31 Oct 2023



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GRAPHS

