



CONSTRUCTION EQUIPMENT

VOLVO EC350 0031069 - DIESEL ENGINE



Sample No: VCP292974
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP292974	VCP281571	VCP269404	VCP247381
Sample Date	22 Oct 2020	29 Jun 2020	02 Apr 2020	31 Aug 2019
Machine Hours	2549	2261	2003	1381
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ATTENTION	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	▲ 11.4	■ 11.9	▲ 11.3	■ 12.1
Oxidation (PA)	%	41	38	35	63



CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	56	54	52	53
Sulfation (PA)	%	50	48	44	54
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 2.1	<1.0	■ 0.4	<1.0
Silicon	ppm	■ 8	■ 6	■ <1	■ 8
Sodium	ppm	■ 2	■ <1	■ 1	■ 2
Potassium	ppm	■ 0	■ 0	■ <1	■ 0

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 4	■ 5	■ 4	■ 5
Copper	ppm	■ 3	■ 3	■ 4	■ 15
Lead	ppm	■ 2	■ 0	■ <1	■ 0
Tin	ppm	■ 0	■ 2	■ <1	■ <1
Aluminum	ppm	■ 2	■ 0	■ <1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ 0
Molybdenum	ppm	■ 24	■ 7	■ 11	■ 47
Nickel	ppm	■ 0	■ <1	■ <1	■ <1
Titanium	ppm	■ <1	■ <1	■ <1	■ 0
Silver	ppm	0	<1	0	0
Manganese	ppm	■ <1	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 2076	■ 2282	■ 2057	■ 1553
Magnesium	ppm	■ 200	76	160	■ 394
Zinc	ppm	■ 962	■ 891	■ 955	■ 938
Phosphorus	ppm	■ 868	■ 866	■ 821	■ 825
Barium	ppm	■ 1	■ 0	■ 2	■ 0
Boron	ppm	■ 23	■ 11	■ 40	■ 36

Depot: CITMILCON
Unique No: 9241155
Signed: Jonathan Hester
Report Date: 06 Nov 2020



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GRAPHS

