



CONSTRUCTION EQUIPMENT

677204 VOLVO EC350EL 3 10558 - DIESEL ENGINE



Sample No: VCP321437

Oil Type: NOT GIVEN

Job No: 677204



SAMPLE INFORMATION

Sample Number	VCP321437	VCP300142	VCP280288	VCP259174
Sample Date	11 Aug 2021	12 May 2021	29 Jun 2020	25 Sep 2019
Machine Hours	3118	2666	2204	1696
Oil Hours	500	666	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.1	11.9	12.1	12.3
Oxidation (PA)	%	94	76	93	82



CONTAMINATION

Soot %	%	0	0.1	0.2	0.1
Nitration (PA)	%	77	72	74	62
Sulfation (PA)	%	73	60	66	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.2	<1.0	<1.0
Silicon	ppm	5	5	6	8
Sodium	ppm	2	3	2	3
Potassium	ppm	<1	1	<1	14



WEAR METALS

Iron	ppm	5	6	13	8
Copper	ppm	2	4	19	67
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	1	0
Aluminum	ppm	0	3	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	31	40	36
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1852	1765	1765	1601
Magnesium	ppm	498	388	522	426
Zinc	ppm	1069	999	854	805
Phosphorus	ppm	1000	889	756	693
Barium	ppm	0	0	0	0
Boron	ppm	27	35	23	26

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0096
Unique No: 9623223
Signed: Jonathan Hester
Report Date: 19 Aug 2021



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GRAPHS

