



CONSTRUCTION EQUIPMENT

370618 VOLVO EC350EL 310044 - DIESEL ENGINE



Sample No: VCP392191
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 370618



SAMPLE INFORMATION

Sample Number	VCP392191	VCP353083	VCP353113	VCP331933
Sample Date	04 Jul 2023	13 Mar 2023	16 Sep 2022	16 Feb 2022
Machine Hours	6130	5646	5122	4595
Oil Hours	500	0	0	700
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

STRONGCO EQUIP (AB)
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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.3	12.4
Oxidation (PA)	%	86	89	65	89



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	60	69	53	71
Sulfation (PA)	%	63	69	56	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.8	<1.0	<1.0
Silicon	ppm	4	6	13	9
Sodium	ppm	2	2	3	3
Potassium	ppm	<1	<1	1	<1

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 condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	3	4	7	4
Copper	ppm	<1	<1	1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	1	3	1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	41	42	39	40
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1718	1782	1640	1624
Magnesium	ppm	518	506	488	516
Zinc	ppm	1090	1089	1058	1090
Phosphorus	ppm	996	1023	968	958
Barium	ppm	0	0	0	0
Boron	ppm	45	44	42	50

Depot: VOLVO9652
Unique No: 5606070
Signed: Wes Davis
Report Date: 11 Jul 2023



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VOLVO GRAPHS

