



CONSTRUCTION EQUIPMENT

CANNINGTON 8-394537 VOLVO EC220E 314324 - DIESEL ENGINE



Sample No: VCP394153
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-394537



SAMPLE INFORMATION

Sample Number	VCP394153	VCP394804	VCP352382	VCP334354
Sample Date	23 Feb 2024	10 Oct 2023	20 Sep 2022	12 Nov 2021
Machine Hours	2080	1666	505	482
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
MISSISSAUGA, ON
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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.2	12.9	13.1
Oxidation (PA)	%	91	87	86	49



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	72	73	67	62
Sulfation (PA)	%	65	63	64	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	11	16	16
Sodium	ppm	2	3	4	3
Potassium	ppm	2	<1	<1	4

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	16	29	31	17
Copper	ppm	1	2	2	7
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	<1	<1	2
Aluminum	ppm	6	9	5	3
Chromium	ppm	<1	1	1	1
Molybdenum	ppm	40	41	36	3
Nickel	ppm	<1	1	2	5
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1816	1849	1831	2325
Magnesium	ppm	508	492	464	105
Zinc	ppm	1110	1163	1071	1106
Phosphorus	ppm	971	981	1001	1010
Barium	ppm	0	<1	0	<1
Boron	ppm	33	30	30	12

Depot: SHEMIS
Unique No: 5746516
Signed: Wes Davis
Report Date: 12 Mar 2024



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GRAPHS

