



CONSTRUCTION EQUIPMENT

8-384243 VOLVO ECR145E 31 1006 - DIESEL ENGINE



Sample No: VCP394610
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 8-384243



SAMPLE INFORMATION

Sample Number	VCP394610	VCP392343	VCP353489	VCP332790
Sample Date	21 Nov 2023	13 Mar 2023	24 Nov 2022	07 Jul 2022
Machine Hours	5080	4480	4035	3578
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
 CA L4W 4L4

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	12.9	13.3
Oxidation (PA)	%	84	82	88	83



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0	0.1	0.1
Nitration (PA)	%	67	62	67	72
Sulfation (PA)	%	62	69	66	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	6	6
Sodium	ppm	3	3	3	3
Potassium	ppm	0	<1	0	<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	13	7	10	14
Copper	ppm	3	2	2	2
Lead	ppm	<1	<1	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	5	4	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	41	44	38
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1766	1811	1764	1850
Magnesium	ppm	469	498	516	451
Zinc	ppm	1087	1090	1104	1066
Phosphorus	ppm	941	1024	1019	920
Barium	ppm	<1	0	0	0
Boron	ppm	45	50	39	41

Depot: SHEMIS
Unique No: 5683457
Signed: Wes Davis
Report Date: 23 Nov 2023



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VOLVO GRAPHS

