



CONSTRUCTION EQUIPMENT

8-377623 VOLVO ECR23E 31 1028 - DIESEL ENGINE



Sample No: VCP394803
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 8-377623



SAMPLE INFORMATION

Sample Number	VCP394803	VCP298269	VCP352294	VCP333969
Sample Date	11 Sep 2023	10 Apr 2023	31 May 2022	24 Nov 2021
Machine Hours	3480	2980	2530	2090
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	13.3	13.3	13.4	13.2
Oxidation (PA)	%	84	84	87	86



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	62	63	66	73
Sulfation (PA)	%	62	62	68	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	9	7	9
Sodium	ppm	3	3	3	3
Potassium	ppm	<1	0	<1	2

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	18	23	29	54
Copper	ppm	1	1	2	3
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	3	4	4	6
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	42	42	39	39
Nickel	ppm	<1	<1	<1	2
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1747	1866	1715	1715
Magnesium	ppm	525	524	532	608
Zinc	ppm	1119	1140	1099	1157
Phosphorus	ppm	1010	1025	982	1009
Barium	ppm	0	0	0	<1
Boron	ppm	31	31	37	26

Depot: SHEMIS
Unique No: 5643810
Signed: Wes Davis
Report Date: 15 Sep 2023



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GRAPHS

