



CONSTRUCTION EQUIPMENT

LAKESIDE 8-380419 VOLVO ECR305E 110434 - DIESEL ENGINE



Sample No: VCP392265
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-380419



SAMPLE INFORMATION

Sample Number	VCP392265	VCP382289	VCP352837	VCP332542
Sample Date	10 Oct 2023	07 Mar 2023	30 Sep 2022	23 Jun 2022
Machine Hours	7500	6900	7000	6500
Oil Hours	0	0	1000	500
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	12.7	13.3	13.2	13.4
Oxidation (PA)	%	80	82	79	24



CONTAMINATION

Soot %	%	0.1	0.1	0	0
Nitration (PA)	%	50	59	55	33
Sulfation (PA)	%	63	70	64	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	5	10
Sodium	ppm	3	3	3	3
Potassium	ppm	0	0	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	8	6	5	9
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	1	1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	40	42	41	36
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1733	1903	1835	1882
Magnesium	ppm	513	512	483	457
Zinc	ppm	1084	1142	1105	1117
Phosphorus	ppm	917	1042	1018	975
Barium	ppm	0	0	0	0
Boron	ppm	53	48	41	43

Depot: SHEMIS
Unique No: 5657653
Signed: Wes Davis
Report Date: 12 Oct 2023



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GRAPHS

