



CONSTRUCTION EQUIPMENT

LAKESIDE 8-391810 VOLVO ECR88D 212107 - DIESEL ENGINE



Sample No: VCP394719
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 8-391810



SAMPLE INFORMATION

Sample Number	VCP394719	VCP333833	VCP273918	VCP242780
Sample Date	18 Jan 2024	13 Dec 2022	02 Dec 2020	30 Dec 2019
Machine Hours	6615	5850	4611	4026
Oil Hours	500	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	MARGINAL	NORMAL	NORMAL

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
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OIL CONDITION

Visc @ 100°C	cSt	13.5	12.4	13.7	13.7
Oxidation (PA)	%	85	105	78	100



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.4
Nitration (PA)	%	80	100	83	105
Sulfation (PA)	%	62	69	59	74
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	4	<1.0	<1.0
Silicon	ppm	6	6	6	13
Sodium	ppm	2	3	3	3
Potassium	ppm	<1	<1	2	1

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

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	23	14	30
Copper	ppm	<1	2	1	2
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	3	2	5
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	52	38	23	45
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1771	1731	1571	1784
Magnesium	ppm	404	483	620	549
Zinc	ppm	1080	875	882	935
Phosphorus	ppm	939	738	712	768
Barium	ppm	0	0	<1	<1
Boron	ppm	42	27	42	26

Depot: SHEMIS
Unique No: 5711261
Signed: Wes Davis
Report Date: 22 Jan 2024



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GRAPHS

