



CONSTRUCTION EQUIPMENT

9599 VOLVO EC350E 314220 - DIESEL ENGINE



Sample No: VCP413782
Oil Type: CHEVRON 15W40
Job No: 9599



SAMPLE INFORMATION

Sample Number	VCP413782	VCP322128	VCP316388	VCP323698
Sample Date	12 Sep 2023	27 Jan 2022	20 Jul 2021	18 May 2021
Machine Hours	3967	2187	992	581
Oil Hours	0	500	500	581
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

RECYCLE 1
 4700 LAWRENCE ST
 HYATTSVILLE, MD
 US 20781
 Contact: MIKE DESJARDINS
 mdesjarkins@wbwaste.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.1	12.1	12.4
Base Number (BN)	mg KOH/g	4.2	6.6	---	---
Oxidation (PA)	%	61	52	83	66

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	68	62	63	62
Sulfation (PA)	%	63	55	62	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	66	8	15	25
Sodium	ppm	4	2	2	3
Potassium	ppm	2	<1	0	4



WEAR METALS

Iron	ppm	13	4	5	11
Copper	ppm	5	6	75	267
Lead	ppm	4	1	1	1
Tin	ppm	<1	<1	1	3
Aluminum	ppm	2	1	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	6	7	41	14
Nickel	ppm	3	0	0	1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2321	2268	1674	2192
Magnesium	ppm	86	95	454	108
Zinc	ppm	1153	1089	1006	1029
Phosphorus	ppm	911	885	852	893
Barium	ppm	0	0	0	0
Boron	ppm	3	11	20	8

Depot: RECHYA
Unique No: 10657348
Signed: Angela Borella
Report Date: 21 Sep 2023



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GRAPHS

