



CONSTRUCTION EQUIPMENT

SEMINOLE WASTE CO VOLVO EC350E 3 14333 - DIESEL ENGINE



Sample No: VCP440266
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SEMINOLE WASTE CO



SAMPLE INFORMATION

Sample Number	VCP440266	VCP415613	VCP406880	VCP369896
Sample Date	26 Dec 2023	21 Aug 2023	28 Apr 2023	13 Dec 2022
Machine Hours	2607	2047	1516	1042
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.3	12.4	12.4
Base Number (BN)	mg KOH/g	9.0	8.7	7.9	9.3
Oxidation (PA)	%	80	82	81	80

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.4
Nitration (PA)	%	62	64	63	84
Sulfation (PA)	%	60	60	58	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	8
Sodium	ppm	1	3	2	0
Potassium	ppm	0	0	0	2



WEAR METALS

Iron	ppm	4	5	4	6
Copper	ppm	2	4	13	91
Lead	ppm	<1	<1	0	<1
Tin	ppm	1	<1	<1	1
Aluminum	ppm	1	<1	<1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	48	45	39	50
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1649	1839	1614	1859
Magnesium	ppm	688	534	463	465
Zinc	ppm	1223	1136	1005	1142
Phosphorus	ppm	1007	949	805	938
Barium	ppm	0	0	0	0
Boron	ppm	24	32	38	29

Depot: VOLVO0093
Unique No: 10808096
Signed: Wes Davis
Report Date: 02 Jan 2024



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VOLVO GRAPHS

