



CONSTRUCTION EQUIPMENT

689229 STONE CO VOLVO EC350E 314488 - DIESEL ENGINE



Sample No: VCP447060
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 689229 STONE CO



SAMPLE INFORMATION

Sample Number	VCP447060	VCP435961	VCP412460	VCP414127
Sample Date	01 Apr 2024	10 Nov 2023	28 Aug 2023	15 Jun 2023
Machine Hours	1972	1486	1004	492
Oil Hours	500	500	500	492
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

ALTA EQUIPMENT COMPANY - METRO WEST
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OIL CONDITION

Visc @ 100°C	cSt	11.7	11.5	11.7	10.7
Base Number (BN)	mg KOH/g	7.9	7.3	6.1	5.8
Oxidation (PA)	%	63	61	61	72

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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	72	65	66	76
Sulfation (PA)	%	53	55	54	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.8
Silicon	ppm	4	4	8	24
Sodium	ppm	2	1	3	3
Potassium	ppm	0	<1	<1	4



WEAR METALS

Iron	ppm	6	2	7	9
Copper	ppm	14	43	207	444
Lead	ppm	<1	<1	0	4
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	<1	10
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	52	57	65	85
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1118	980	1209	2109
Magnesium	ppm	936	903	915	200
Zinc	ppm	1132	1207	1288	1168
Phosphorus	ppm	1026	976	1018	931
Barium	ppm	0	0	0	0
Boron	ppm	0	1	4	84

Depot: VOLVO2990
Unique No: 10968724
Signed: Angela Borella
Report Date: 12 Apr 2024



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GRAPHS

