



CONSTRUCTION EQUIPMENT

715789 STONE CO VOLVO EC480E 314554 - DIESEL ENGINE



Sample No: VCP454476
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715789 STONE CO



SAMPLE INFORMATION

Sample Number	VCP454476	VCP431340	VCP419775	VCP403814
Sample Date	16 Apr 2024	29 Sep 2023	19 Apr 2023	17 Jan 2023
Machine Hours	4296	3371	2899	2431
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
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OIL CONDITION

Visc @ 100°C	cSt	12.0	12.4	12.2	12.3
Base Number (BN)	mg KOH/g	7.0	8.7	7.7	8.2
Oxidation (PA)	%	66	58	60	60

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)	%	78	63	67	68
Sulfation (PA)	%	55	51	52	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	5	4
Sodium	ppm	2	<1	<1	<1
Potassium	ppm	<1	0	0	1



WEAR METALS

Iron	ppm	6	5	6	7
Copper	ppm	7	2	4	3
Lead	ppm	<1	<1	0	<1
Tin	ppm	1	<1	0	<1
Aluminum	ppm	2	0	<1	0
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	63	59	62	62
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1097	1025	1112	1097
Magnesium	ppm	1008	983	1031	967
Zinc	ppm	1312	1239	1344	1253
Phosphorus	ppm	1096	999	1069	1045
Barium	ppm	0	0	0	1
Boron	ppm	<1	0	0	0

Depot: VOLVO2990
Unique No: 11042534
Signed: Jonathan Hester
Report Date: 23 May 2024



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GRAPHS

