



CONSTRUCTION EQUIPMENT

X49017 VOLVO EC350EL 314367 - DIESEL ENGINE



Sample No: VCP444515
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X49017



SAMPLE INFORMATION

Sample Number	VCP444515	VCP435975	VCP407271	VCP391126
Sample Date	24 May 2024	22 Dec 2023	28 Apr 2023	13 Jan 2023
Machine Hours	4574	3826	2468	1716
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.1	12.4	12.6
Base Number (BN)	mg KOH/g	8.7	7.8	7.0	9.0
Oxidation (PA)	%	84	87	82	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	74	79	76	74
Sulfation (PA)	%	62	62	56	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.4	<1.0
Silicon	ppm	10	12	6	6
Sodium	ppm	2	4	2	2
Potassium	ppm	2	<1	0	0



WEAR METALS

Iron	ppm	7	8	5	5
Copper	ppm	11	5	8	18
Lead	ppm	1	1	0	<1
Tin	ppm	1	1	1	1
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	66	44	59	54
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1769	1650	1807	1894
Magnesium	ppm	588	603	586	546
Zinc	ppm	1217	1218	1113	1150
Phosphorus	ppm	1109	1015	971	944
Barium	ppm	<1	0	0	0
Boron	ppm	17	15	17	27

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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO6244
Unique No: 11058456
Signed: Don Baldrige
Report Date: 03 Jun 2024



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GRAPHS

