



CONSTRUCTION EQUIPMENT

25841 VOLVO EC350EL 310693 - DIESEL ENGINE



Sample No: VCP453796
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 25841



SAMPLE INFORMATION

Sample Number	VCP453796	VCP371866	VCP339779	VCP337091
Sample Date	05 May 2024	14 Jul 2022	12 Jan 2022	22 Sep 2021
Machine Hours	5501	3874	3278	2931
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.8	12.6	10.5
Base Number (BN)	mg KOH/g	7.2	9.3	11.0	---
Oxidation (PA)	%	81	95	82	41

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	82	88	63	64
Sulfation (PA)	%	59	66	64	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	7	6	5	4
Sodium	ppm	3	2	<1	0
Potassium	ppm	2	0	<1	<1



WEAR METALS

Iron	ppm	7	5	5	4
Copper	ppm	2	3	5	18
Lead	ppm	<1	1	<1	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	1	2	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	50	42	36	45
Nickel	ppm	2	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1958	1794	1568	1470
Magnesium	ppm	431	499	495	973
Zinc	ppm	1162	1130	970	1004
Phosphorus	ppm	982	888	824	882
Barium	ppm	0	0	0	0
Boron	ppm	18	41	62	35

Depot: VOLVO3387
Unique No: 11074839
Signed: Sean Felton
Report Date: 14 Jun 2024



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GRAPHS

