



CONSTRUCTION EQUIPMENT

580271 VOLVO EC750 310137 - DIESEL ENGINE



Sample No: VCP416237
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580271



SAMPLE INFORMATION

Sample Number	VCP416237	VCP365879	VCP373410	VCP361889
Sample Date	24 Jul 2023	12 Sep 2022	25 Jul 2022	01 Mar 2022
Machine Hours	5578	5083	4700	4065
Oil Hours	500	500	606	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	12.3	9.8	10.6	12.2
Base Number (BN)	mg KOH/g	9.3	6.6	6.7	8.3
Oxidation (PA)	%	82	67	77	68

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

Soot %	%	0.4	0.4	0.7	0.4
Nitration (PA)	%	60	60	71	81
Sulfation (PA)	%	63	64	67	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	3	4	6
Sodium	ppm	4	2	0	1
Potassium	ppm	<1	0	1	2

WEAR METALS

Iron	ppm	12	8	13	11
Copper	ppm	10	8	6	3
Lead	ppm	<1	<1	1	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	1	<1	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	41	32	32	56
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1656	1077	1377	1426
Magnesium	ppm	513	532	439	959
Zinc	ppm	1102	1011	1017	1405
Phosphorus	ppm	904	771	805	1162
Barium	ppm	0	0	0	0
Boron	ppm	59	2	18	12

Depot: BLADET
Unique No: 10577369
Signed: Jonathan Hester
Report Date: 31 Jul 2023



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GRAPHS

