



CONSTRUCTION EQUIPMENT

SCOTT HASLAM ELTEC E7 108 - DIESEL ENGINE



Sample No: VCP315284
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SCOTT HASLAM



SAMPLE INFORMATION

Sample Number	VCP315284	VCP424088	VCP365930	VCP328029
Sample Date	28 Jul 2023	25 Jul 2023	07 Jun 2023	30 Mar 2022
Machine Hours	3249	0	2980	141
Oil Hours	70	0	0	0
Oil Changed	Not Chngd	Changed	N/A	N/A
Sample Status	SEVERE	SEVERE	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	10.4	8.7	9.1	6.4
Base Number (BN)	mg KOH/g	10.2	9.0	7.4	3.0
Oxidation (PA)	%	77	81	70	37



CONTAMINATION

Soot %	%	0.3	0.7	1.1	0.1
Nitration (PA)	%	58	80	88	29
Sulfation (PA)	%	60	61	58	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	10.4	17.6	18.7	<1.0
Silicon	ppm	3	3	2	3
Sodium	ppm	1	2	1	6
Potassium	ppm	<1	0	0	12



WEAR METALS

Iron	ppm	4	13	25	12
Copper	ppm	<1	1	<1	9
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	<1	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	37	34	35	4
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1551	1389	970	178
Magnesium	ppm	478	440	489	48
Zinc	ppm	1073	925	815	493
Phosphorus	ppm	889	767	755	424
Barium	ppm	0	0	0	0
Boron	ppm	48	38	17	9

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0007
Unique No: 10587694
Signed: Wes Davis
Report Date: 07 Aug 2023



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GRAPHS

