



CONSTRUCTION EQUIPMENT

VOLVO ECR145EL 314907 - DIESEL ENGINE



Sample No: VCP449701
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP449701	VCP444095	VCP424821	VCP385819
Sample Date	22 Jun 2024	06 Feb 2024	27 Mar 2023	03 Nov 2022
Machine Hours	3676	3067	2045	1534
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.8	12.8	13.0
Base Number (BN)	mg KOH/g	10.2	10.5	10.0	12
Oxidation (PA)	%	76	75	77	88

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	0.2
Nitration (PA)	%	61	60	58	64
Sulfation (PA)	%	57	57	59	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	8	6
Sodium	ppm	2	2	4	0
Potassium	ppm	3	0	<1	0



WEAR METALS

Iron	ppm	11	17	9	14
Copper	ppm	2	5	2	2
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	4	3	2	3
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	45	42	45	42
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	1	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1800	1744	1271	1737
Magnesium	ppm	491	484	458	506
Zinc	ppm	1215	1125	905	1125
Phosphorus	ppm	1018	987	913	931
Barium	ppm	0	0	0	0
Boron	ppm	30	34	30	37

Depot: VOLVO0093
Unique No: 11113272
Signed: Wes Davis
Report Date: 09 Jul 2024



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GRAPHS

