



CONSTRUCTION EQUIPMENT

730276 VOLVO ECR88D 212899 - DIESEL ENGINE



Sample No: VCP453528
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 730276



SAMPLE INFORMATION

Sample Number	VCP453528	VCP380018	VCP341349	VCP299849
Sample Date	18 Jun 2024	22 Nov 2022	16 Jun 2022	15 Apr 2021
Machine Hours	5977	4470	3980	3250
Oil Hours	500	0	0	250
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	14.8	13.2	12.8
Base Number (BN)	mg KOH/g	9.7	10.6	10.6	---
Oxidation (PA)	%	76	62	90	87

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 %	%	0.4	0.2	0.3	0.2
Nitration (PA)	%	73	60	75	65
Sulfation (PA)	%	59	55	66	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	8	6
Sodium	ppm	<1	<1	2	3
Potassium	ppm	2	2	0	<1

WEAR METALS

Iron	ppm	11	4	12	10
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	1	<1
Aluminum	ppm	2	3	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	47	46	39	42
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	1481	1711	1595	1636
Magnesium	ppm	732	512	502	492
Zinc	ppm	1212	992	1132	1038
Phosphorus	ppm	955	808	889	917
Barium	ppm	0	0	0	0
Boron	ppm	26	116	50	54

Depot: BLADET
Unique No: 11089389
Signed: Wes Davis
Report Date: 24 Jun 2024



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GRAPHS

