



CONSTRUCTION EQUIPMENT

9848 VOLVO ECR145 315091 - DIESEL ENGINE



Sample No: VCP437458
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 9848



SAMPLE INFORMATION

Sample Number	VCP437458	VCP427185	VCP398521	VCP366205
Sample Date	10 Jan 2024	04 Aug 2023	10 Apr 2023	21 Sep 2022
Machine Hours	2869	2365	1864	1394
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

JON M HALL COMPANY
 1920 BOOTHE CIRCLE SUITE 110
 LONGWOOD, FL
 US 32750
 Contact: SERVICE MANAGER



OIL CONDITION

Visc @ 100°C	cSt	13.1	12.9	13.0	13.1
Base Number (BN)	mg KOH/g	9.8	10.6	9.5	12.2
Oxidation (PA)	%	73	84	80	85

T: (407)215-0410
 F:

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	0.3
Nitration (PA)	%	62	63	58	70
Sulfation (PA)	%	56	61	56	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	4	9
Sodium	ppm	4	3	3	2
Potassium	ppm	0	0	75	0



WEAR METALS

Iron	ppm	10	10	50	10
Copper	ppm	2	2	1	1
Lead	ppm	0	0	0	1
Tin	ppm	<1	<1	0	2
Aluminum	ppm	2	3	29	4
Chromium	ppm	<1	<1	1	1
Molybdenum	ppm	53	45	71	39
Nickel	ppm	0	<1	0	2
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1350	1879	1307	1796
Magnesium	ppm	760	554	1063	522
Zinc	ppm	1228	1196	1420	1118
Phosphorus	ppm	1020	995	1134	935
Barium	ppm	0	0	0	0
Boron	ppm	14	33	16	28

Depot: JONLON
Unique No: 10832038
Signed: Wes Davis
Report Date: 16 Jan 2024



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VOLVO GRAPHS

