



CONSTRUCTION EQUIPMENT

VOLVO ECR58D 210716 - DIESEL ENGINE



Sample No: VCP384964
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP384964	VCP379655	VCP370671	---
Sample Date	26 Jun 2024	12 Oct 2023	03 Feb 2023	---
Machine Hours	1754	1161	542	---
Oil Hours	0	1161	542	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

536 - ASCENDUM MACHINERY INC - CHATTANOOGA
 7829 LEE HWY
 CHATTANOOGA, TN
 US 37421
 Contact: WILLIAM WALKER
 william.walker@ascendummachinery.com
 T:
 F: (423)308-7959



OIL CONDITION

Visc @ 100°C	cSt	13.6	13.8	13.5	---
Base Number (BN)	mg KOH/g	9.3	6.9	7.1	---
Oxidation (PA)	%	83	94	61	---

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	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	73	83	61	---
Sulfation (PA)	%	61	64	54	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	10	---
Sodium	ppm	7	4	3	---
Potassium	ppm	2	1	3	---



WEAR METALS

Iron	ppm	10	11	13	---
Copper	ppm	6	49	33	---
Lead	ppm	0	<1	1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	4	2	3	---
Chromium	ppm	<1	1	1	---
Molybdenum	ppm	44	40	6	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	1	2	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	1743	1668	2435	---
Magnesium	ppm	568	472	15	---
Zinc	ppm	1287	1108	1158	---
Phosphorus	ppm	1017	863	922	---
Barium	ppm	0	4	3	---
Boron	ppm	39	42	61	---

Depot: VOLVO0117
Unique No: 11100175
Signed: Wes Davis
Report Date: 27 Jun 2024



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GRAPHS

