



CONSTRUCTION EQUIPMENT

139179 DOLESE VOLVO EC220D 210447 - DIESEL ENGINE



Sample No: VCP413733
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 139179 DOLESE



SAMPLE INFORMATION

Sample Number	VCP413733	VCP171667	VCP165948	---
Sample Date	14 Jun 2024	10 Feb 2015	15 Jul 2014	---
Machine Hours	7249	1650	1025	---
Oil Hours	0	461	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.5	14.18	13.85	---
Base Number (BN)	mg KOH/g	8.4	---	---	---
Oxidation (PA)	%	64	56	56	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.
 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 %	%	0.3	0.3	0.1	---
Nitration (PA)	%	68	67	50	---
Sulfation (PA)	%	55	50	47	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	10	12	9	---
Sodium	ppm	2	4	2	---
Potassium	ppm	2	0	<1	---



WEAR METALS

Iron	ppm	77	83	15	---
Copper	ppm	2	7	3	---
Lead	ppm	0	1	<1	---
Tin	ppm	<1	2	<1	---
Aluminum	ppm	6	24	5	---
Chromium	ppm	<1	7	<1	---
Molybdenum	ppm	58	45	<1	---
Nickel	ppm	0	<1	2	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	2070	1415	2317	---
Magnesium	ppm	498	814	12	---
Zinc	ppm	1493	1136	1056	---
Phosphorus	ppm	1258	877	932	---
Barium	ppm	0	0	0	---
Boron	ppm	81	33	1	---

Depot: VOLVO0053
Unique No: 11084091
Signed: Wes Davis
Report Date: 19 Jun 2024



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GRAPHS

