



CONSTRUCTION EQUIPMENT

W03007379 CIVIL BRAN VOLVO ECR355E 314628 - DIESEL ENGINE



Sample No: VCP409459
Oil Type: VOLVO 15W30
Job No: W03007379 CIVIL BRAN



SAMPLE INFORMATION

Sample Number	VCP409459	VCP425217	VCP397825	---
Sample Date	30 Nov 2023	01 Sep 2023	14 Mar 2023	---
Machine Hours	1525	1231	497	---
Oil Hours	250	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.1	12.7	---
Base Number (BN)	mg KOH/g	9.2	7.9	7.5	---
Oxidation (PA)	%	65	63	44	---

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	52	67	55	---
Sulfation (PA)	%	63	59	48	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	10	14	---
Sodium	ppm	<1	2	4	---
Potassium	ppm	4	3	2	---



WEAR METALS

Iron	ppm	5	13	13	---
Copper	ppm	1	6	18	---
Lead	ppm	<1	3	1	---
Tin	ppm	0	2	2	---
Aluminum	ppm	4	2	4	---
Chromium	ppm	0	<1	0	---
Molybdenum	ppm	133	107	10	---
Nickel	ppm	0	3	8	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1790	1677	1957	---
Magnesium	ppm	727	644	274	---
Zinc	ppm	1028	936	1068	---
Phosphorus	ppm	841	784	919	---
Barium	ppm	0	0	0	---
Boron	ppm	375	210	16	---

Depot: MCCFRE
Unique No: 10767400
Signed: Don Baldrige
Report Date: 05 Dec 2023



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GRAPHS

