



CONSTRUCTION EQUIPMENT

58150 REPUBLIC SVCS VOLVO EC460CL 110199 - DIESEL ENGINE



Sample No: VCP420569
Oil Type: CAT DIESEL ENGINE OIL 15W40
Job No: 58150 REPUBLIC SVCS



SAMPLE INFORMATION

Sample Number	VCP420569	VCP179291	VCP118868	VCP097539
Sample Date	14 Jul 2023	18 Aug 2016	26 Sep 2011	06 Jul 2011
Machine Hours	8664	8991	4255	4000
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.1	13.41	13.07
Base Number (BN)	mg KOH/g	10.3	---	---	---
Oxidation (PA)	%	74	56	52	52

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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

Soot %	%	0.8	0.4	0.4	0.4
Nitration (PA)	%	49	58	58	58
Sulfation (PA)	%	62	53	50	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.7	<1.0	<1.0	<1.0
Silicon	ppm	4	4	4	2
Sodium	ppm	2	8	14	6
Potassium	ppm	<1	3	4	<1



WEAR METALS

Iron	ppm	8	15	11	9
Copper	ppm	2	2	1	1
Lead	ppm	<1	5	0	0
Tin	ppm	<1	7	0	<1
Aluminum	ppm	<1	3	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	3	41	47
Nickel	ppm	1	<1	1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1779	2267	1345	1428
Magnesium	ppm	513	58	779	790
Zinc	ppm	1154	1046	1033	1058
Phosphorus	ppm	941	951	914	1002
Barium	ppm	0	0	0	<1
Boron	ppm	61	26	29	34

Depot: VOLVO0016
Unique No: 10564326
Signed: Don Baldrige
Report Date: 26 Jul 2023



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GRAPHS

