



CONSTRUCTION EQUIPMENT

SWA032978-10 VOLVO EC700C 110759 - DIESEL ENGINE



Sample No: VCP363204
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA032978-10



SAMPLE INFORMATION

Sample Number	VCP363204	VCP373360	VCP332157	VCP336109
Sample Date	12 Aug 2022	22 Mar 2022	30 Dec 2021	27 Sep 2021
Machine Hours	12003	11462	11000	10500
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

THALLE INDUSTRIES

172 ROUTE 9
 FISHKILL, NY
 US 12524
 Contact: JOHN AMATO
 jamato@thalleindustries.com
 T: (845)896-5156
 F: (845)896-0161



OIL CONDITION

Visc @ 100°C	cSt	14.6	13.9	14.2	16.7
Base Number (BN)	mg KOH/g	8.2	8.3	7.9	---
Oxidation (PA)	%	118	105	113	128

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	0.104
Soot %	%	0.4	0.2	0.3	0.4
Nitration (PA)	%	108	99	95	113
Sulfation (PA)	%	83	76	82	89
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	10	14	10
Sodium	ppm	0	3	2	4
Potassium	ppm	2	3	<1	<1



WEAR METALS

Iron	ppm	19	13	16	17
Copper	ppm	1	<1	<1	<1
Lead	ppm	6	3	5	5
Tin	ppm	<1	<1	1	1
Aluminum	ppm	2	3	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	83	79	86	101
Nickel	ppm	0	1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1512	1717	1555	2356
Magnesium	ppm	746	494	449	680
Zinc	ppm	1401	1384	1317	1725
Phosphorus	ppm	1133	1100	1031	1333
Barium	ppm	0	0	0	0
Boron	ppm	98	264	274	258

Depot: THAFIS
Unique No: 10105049
Signed: Don Baldrige
Report Date: 26 Aug 2022



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GRAPHS

