



CONSTRUCTION EQUIPMENT

SWA350844-10 VOLVO EC300E 314225 - DIESEL ENGINE



Sample No: VCP407432
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA350844-10



SAMPLE INFORMATION

Sample Number	VCP407432	VCP407416	VCP374143	VCP303859
Sample Date	07 Sep 2023	19 Jun 2023	10 Jun 2022	03 Jun 2021
Machine Hours	4869	4288	2242	1039
Oil Hours	0	0	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DENALI WE CARE

400 TORNE RD
 HILLBURN, NY
 US 10931
 Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	12.7	12.9	13.1	12.7
Base Number (BN)	mg KOH/g	10.2	10.3	11.0	---
Oxidation (PA)	%	83	86	88	82

T:
F:

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	%	---	---	---	0.311
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	58	63	63	77
Sulfation (PA)	%	61	61	65	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	6	7
Sodium	ppm	3	2	3	2
Potassium	ppm	7	1	7	8



WEAR METALS

Iron	ppm	6	6	8	9
Copper	ppm	3	2	4	4
Lead	ppm	<1	<1	1	2
Tin	ppm	<1	<1	1	2
Aluminum	ppm	4	1	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	42	41	54
Nickel	ppm	0	0	1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	<1



ADDITIVES

Calcium	ppm	1967	1856	1696	1720
Magnesium	ppm	566	561	496	522
Zinc	ppm	1247	1230	1187	1179
Phosphorus	ppm	1005	968	959	985
Barium	ppm	0	0	0	0
Boron	ppm	38	48	49	137

Depot: DENHIL
Unique No: 10649668
Signed: Wes Davis
Report Date: 20 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

