



CONSTRUCTION EQUIPMENT

SWA275683-10 VOLVO EC300E 314225 - DIESEL ENGINE



Sample No: VCP407416
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: SWA275683-10



SAMPLE INFORMATION

Sample Number	VCP407416	VCP374143	VCP303859	VCP291005
Sample Date	19 Jun 2023	10 Jun 2022	03 Jun 2021	16 Oct 2020
Machine Hours	4288	2242	1039	460
Oil Hours	0	500	500	250
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	12.9	13.1	12.7	12.7
Base Number (BN)	mg KOH/g	10.3	11.0	---	---
Oxidation (PA)	%	86	88	82	68

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	0.2	0.1
Nitration (PA)	%	63	63	77	56
Sulfation (PA)	%	61	65	60	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	7	7
Sodium	ppm	2	3	2	0
Potassium	ppm	1	7	8	12



WEAR METALS

Iron	ppm	6	8	9	5
Copper	ppm	2	4	4	4
Lead	ppm	<1	1	2	<1
Tin	ppm	<1	1	2	<1
Aluminum	ppm	1	4	5	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	41	54	63
Nickel	ppm	0	1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1856	1696	1720	1495
Magnesium	ppm	561	496	522	463
Zinc	ppm	1230	1187	1179	951
Phosphorus	ppm	968	959	985	810
Barium	ppm	0	0	0	0
Boron	ppm	48	49	137	179

Depot: DENHIL
Unique No: 10604681
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

