



CONSTRUCTION EQUIPMENT

95 VOLVO EW180C 122230 - DIESEL ENGINE



Sample No: VC449300
Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40
Job No: 95



SAMPLE INFORMATION

Sample Number	VC449300	VCE180209	VCE180208	VC463539
Sample Date	05 Jun 2023	28 Jan 2022	06 Dec 2021	08 Jan 2021
Machine Hours	7279	6245	3146	5576
Oil Hours	500	97	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

CHEMUNG CO HWY DEPT
 803 CHEMUNG STREET
 HORSEHEADS, NY
 US 14845
 Contact: TIM COLLINS

OIL CONDITION

Visc @ 100°C	cSt	14.9	14.3	14.4	14.5
Base Number (BN)	mg KOH/g	7.8	8.5	7.2	---
Oxidation (PA)	%	67	51	59	57

T: (607)739-3898
 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

Soot %	%	1	0.7	0.3	0.9
Nitration (PA)	%	80	69	80	73
Sulfation (PA)	%	62	54	61	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	7	6	6
Sodium	ppm	2	3	<1	2
Potassium	ppm	4	<1	2	3

WEAR METALS

Iron	ppm	18	8	12	24
Copper	ppm	<1	<1	2	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	2	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	20	65	14	35
Nickel	ppm	0	0	2	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	2499	2247	2408	2387
Magnesium	ppm	41	31	103	241
Zinc	ppm	1292	1019	1122	1248
Phosphorus	ppm	1077	1045	986	1017
Barium	ppm	0	0	0	0
Boron	ppm	139	73	12	55

Depot: CHEHOR
Unique No: 10572740
Signed: Sean Felton
Report Date: 26 Jul 2023



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GRAPHS

