



CONSTRUCTION EQUIPMENT

SPM580302 SUWANNEE VOLVO L180H 5496 - DIESEL ENGINE



Sample No: VCP412811
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM580302 SUWANNEE



SAMPLE INFORMATION

Sample Number	VCP412811	VCP417492	VCP405147	VCP379842
Sample Date	18 Jul 2023	02 Jun 2023	14 Apr 2023	02 Nov 2022
Machine Hours	11082	10460	9652	6867
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.5	12.9
Base Number (BN)	mg KOH/g	10.1	9.8	4.7	11.9
Oxidation (PA)	%	80	82	96	87



CONTAMINATION

Soot %	%	0.2	0.2	0.4	0.2
Nitration (PA)	%	59	68	87	63
Sulfation (PA)	%	60	61	62	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	4
Sodium	ppm	3	3	4	2
Potassium	ppm	0	0	2	0



WEAR METALS

Iron	ppm	3	5	13	4
Copper	ppm	1	2	6	4
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	1	2	1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	43	43	43	43
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1778	1754	1289	1677
Magnesium	ppm	527	517	423	501
Zinc	ppm	1128	1113	813	1054
Phosphorus	ppm	952	915	707	898
Barium	ppm	0	0	0	0
Boron	ppm	39	30	15	45

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.

Depot: VOLVO0093
Unique No: 10565422
Signed: Wes Davis
Report Date: 25 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

