



CONSTRUCTION EQUIPMENT

20081 READY MIX VOLVO L90H 623326 - DIESEL ENGINE



Sample No: VCP422292
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 20081 READY MIX



SAMPLE INFORMATION

Sample Number	VCP422292	VCP419805	VCP370295	VCP341984
Sample Date	24 Jul 2023	16 May 2023	27 Feb 2023	24 Jun 2022
Machine Hours	13120	0	12063	10594
Oil Hours	0	0	12063	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



520 - ASCENDUM MACHINERY INC - KNOXVILLE
 5730 RUTLEDGE PIKE
 KNOXVILLE, TN
 US 37924
 Contact: BRANDON GRANT
 brandon.grant@ascendummachinery.com
 T: (865)525-1845
 F: (865)525-0251



OIL CONDITION

Visc @ 100°C	cSt	12.3	12.9	13.5	12.9
Base Number (BN)	mg KOH/g	10.3	10.3	10.4	9.1
Oxidation (PA)	%	75	83	76	74



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	54	56	67	76
Sulfation (PA)	%	58	61	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	12	12	6
Sodium	ppm	2	3	1	2
Potassium	ppm	0	0	2	0



WEAR METALS

Iron	ppm	4	6	7	8
Copper	ppm	<1	<1	<1	3
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	3	5	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	45	54	39
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1675	1836	1821	1544
Magnesium	ppm	546	523	404	544
Zinc	ppm	1157	1173	1172	1008
Phosphorus	ppm	959	979	981	801
Barium	ppm	0	0	0	0
Boron	ppm	48	46	46	41

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: VOLV00124
Unique No: 10575268
Signed: Wes Davis
Report Date: 27 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

