



CONSTRUCTION EQUIPMENT

593849 VOLVO L150H 6057 - DIESEL ENGINE



Sample No: VCP417650
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 593849



SAMPLE INFORMATION

Sample Number	VCP417650	VCP411630	VCP394049	VCP379613
Sample Date	10 Aug 2023	01 Jun 2023	10 Mar 2023	04 Jan 2023
Machine Hours	11051	10591	10046	0
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION



PARAGON DEVELOPMENT GROUP
 402 N FRONTAGE RD
 PLANT CITY, FL
 US 33563
 Contact: ED WALPOLE
 edwiv@pdgpc.com
 T:
 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.3	▲ 12.4	▲ 12.4
Base Number (BN)	mg KOH/g	■ 9.6	■ 9.6	■ 10.1	■ 10.0
Oxidation (PA)	%	73	82	76	78



CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	55	56	53	56
Sulfation (PA)	%	56	60	59	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	■ 0.8
Silicon	ppm	■ 5	■ 5	■ 4	■ 6
Sodium	ppm	■ 3	■ 2	■ 1	■ 0
Potassium	ppm	■ 0	■ 0	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 2	■ 3	■ 3	■ 4
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 1
Tin	ppm	■ 0	■ 0	■ 0	■ <1
Aluminum	ppm	■ 0	■ 0	■ <1	■ 2
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 42	■ 42	■ 47	■ 47
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	■ 1732	■ 1636	■ 1717	■ 1645
Magnesium	ppm	■ 502	■ 503	■ 554	■ 559
Zinc	ppm	■ 1118	■ 1062	■ 1184	■ 1191
Phosphorus	ppm	■ 924	■ 889	■ 967	■ 941
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 37	■ 36	■ 45	■ 37

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: PARPLA
Unique No: 10619894
Signed: Sean Felton
Report Date: 28 Aug 2023



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GRAPHS

