



CONSTRUCTION EQUIPMENT

688678 VOLVO L150H 6057 - DIESEL ENGINE



Sample No: VCP438336
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 688678



SAMPLE INFORMATION

Sample Number	VCP438336	VCP432117	VCP440797	VCP417650
Sample Date	25 Mar 2024	17 Jan 2024	30 Oct 2023	10 Aug 2023
Machine Hours	12571	12014	11520	11051
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	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	■ 12.8	■ 12.7	● 12.3	● 12.4
Base Number (BN)	mg KOH/g	■ 10.0	■ 9.8	■ 10.2	■ 9.6
Oxidation (PA)	%	76	62	77	73

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	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	54	51	56	55
Sulfation (PA)	%	58	53	59	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 6	■ 14	■ 7	■ 5
Sodium	ppm	■ 2	■ 3	■ 21	■ 3
Potassium	ppm	■ <1	■ 2	■ 12	■ 0



WEAR METALS

Iron	ppm	■ 4	■ 10	■ 4	■ 2
Copper	ppm	■ 2	■ 4	▲ 26	■ <1
Lead	ppm	■ <1	■ <1	■ 2	■ 0
Tin	ppm	■ <1	■ 0	■ <1	■ 0
Aluminum	ppm	■ 3	■ 4	■ 1	■ 0
Chromium	ppm	■ 0	■ <1	■ 0	■ 0
Molybdenum	ppm	■ 44	■ 51	■ 38	■ 42
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	■ 1642	■ 1298	■ 1464	■ 1732
Magnesium	ppm	■ 577	871	■ 467	■ 502
Zinc	ppm	■ 1151	■ 1255	■ 1032	■ 1118
Phosphorus	ppm	■ 998	■ 1042	■ 870	■ 924
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 40	■ 12	■ 21	■ 37

Depot: PARPLA
Unique No: 11018405
Signed: Wes Davis
Report Date: 09 May 2024



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GRAPHS

