



CONSTRUCTION EQUIPMENT

W14566 VOLVO L180H 5363 - DIESEL ENGINE



Sample No: VCP410532
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W14566



SAMPLE INFORMATION

Sample Number	VCP410532	VCP406907	VCP380819	VCP379579
Sample Date	17 Aug 2023	01 Jun 2023	08 Mar 2023	29 Dec 2022
Machine Hours	4010	3537	3023	2660
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HOUSBY HEAVY EQUIPMENT, LLC
 4410 SE 4 MILE DR
 ANKENY, IA
 US 50021
 Contact: RANDY VANDERLEEST
 rvanderleest@housby.com
 T:
 F: (515)964-2865



OIL CONDITION

Visc @ 100°C	cSt	█ 12.3	█ 12.8	█ 12.8	█ 12.7
Base Number (BN)	mg KOH/g	█ 9.3	█ 10.6	█ 10.6	█ 10.1
Oxidation (PA)	%	█ 77	█ 83	█ 79	█ 79



CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	█ 0.1	█ 0.1
Nitration (PA)	%	█ 51	█ 53	█ 48	█ 49
Sulfation (PA)	%	█ 58	█ 63	█ 60	█ 61
Glycol	%	█ NEG	█ NEG	█ NEG	█ NEG
Fuel	%	█ 0.4	█ <1.0	█ <1.0	█ <1.0
Silicon	ppm	█ 4	█ 3	█ 4	█ 3
Sodium	ppm	█ 2	█ 2	█ 0	█ 2
Potassium	ppm	█ 0	█ <1	█ 1	█ 0



WEAR METALS

Iron	ppm	█ 4	█ 4	█ 4	█ 5
Copper	ppm	█ <1	█ <1	█ <1	█ 1
Lead	ppm	█ 0	█ 0	█ 0	█ <1
Tin	ppm	█ <1	█ 0	█ <1	█ <1
Aluminum	ppm	█ <1	█ <1	█ 2	█ <1
Chromium	ppm	█ 0	█ 0	█ 0	█ <1
Molybdenum	ppm	█ 40	█ 41	█ 42	█ 38
Nickel	ppm	█ 0	█ 0	█ <1	█ <1
Titanium	ppm	█ <1	█ 0	█ 0	█ 0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ 0	█ <1	█ <1
Vanadium	ppm	█ <1	█ 0	█ 0	█ 0



ADDITIVES

Calcium	ppm	█ 1723	█ 1770	█ 1643	█ 1739
Magnesium	ppm	█ 489	█ 502	█ 471	█ 507
Zinc	ppm	█ 967	█ 1015	█ 943	█ 992
Phosphorus	ppm	█ 792	█ 817	█ 783	█ 889
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 47	█ 53	█ 58	█ 61

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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: VOLVO0080
Unique No: 10615384
Signed: Wes Davis
Report Date: 23 Aug 2023



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GRAPHS

