



CONSTRUCTION EQUIPMENT

412922 BULK EXPR VOLVO L180H 5391 - DIESEL ENGINE



Sample No: VCP440365
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 412922 BULK EXPR



SAMPLE INFORMATION

Sample Number	VCP440365	VCP434823	VCP415532	VCP411672
Sample Date	10 Nov 2023	14 Sep 2023	19 Jul 2023	26 May 2023
Machine Hours	4739	3966	3194	2710
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.5	12.52	12.9
Base Number (BN)	mg KOH/g	9.5	9.5	9.9	9.7
Oxidation (PA)	%	82	82	80	80



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	61	58	57	52
Sulfation (PA)	%	60	60	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	15	10	6
Sodium	ppm	3	2	2	<1
Potassium	ppm	<1	1	0	<1

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.



WEAR METALS

Iron	ppm	2	5	4	5
Copper	ppm	2	1	<1	2
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	1	<1	<1	0
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	40	40	43	41
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1594	1689	1798	1737
Magnesium	ppm	518	468	534	530
Zinc	ppm	1107	1111	1184	1176
Phosphorus	ppm	937	917	984	959
Barium	ppm	0	0	<1	0
Boron	ppm	27	24	40	58

Depot: VOLVO0096
Unique No: 10743036
Signed: Wes Davis
Report Date: 16 Nov 2023



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GRAPHS

