



CONSTRUCTION EQUIPMENT

716307 BULK EXPRESS VOLVO L180H 5720 - DIESEL ENGINE



Sample No: VCP454919
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 716307 BULK EXPRESS



SAMPLE INFORMATION

Sample Number	VCP454919	VCP441780	VCP432362	VCP434600
Sample Date	15 May 2024	07 Feb 2024	20 Dec 2023	07 Nov 2023
Machine Hours	3576	2615	2139	1692
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	12.7	12.6
Base Number (BN)	mg KOH/g	9.8	9.6	9.9	10.2
Oxidation (PA)	%	76	79	80	80

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 %	%	0.2	0.1	0.1	0.1
Nitration (PA)	%	56	52	51	55
Sulfation (PA)	%	59	60	59	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	4	4	7
Sodium	ppm	<1	2	0	<1
Potassium	ppm	2	0	0	<1



WEAR METALS

Iron	ppm	4	2	0	4
Copper	ppm	2	<1	<1	5
Lead	ppm	<1	0	0	1
Tin	ppm	1	<1	2	<1
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	39	41	39	42
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1590	1591	1601	1572
Magnesium	ppm	482	519	485	550
Zinc	ppm	1081	1077	1155	1151
Phosphorus	ppm	933	939	937	973
Barium	ppm	0	0	0	0
Boron	ppm	37	55	58	36

Depot: VOLVO0096
Unique No: 11035265
Signed: Wes Davis
Report Date: 21 May 2024



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VOLVO GRAPHS

