



CONSTRUCTION EQUIPMENT

6749 VOLVO L180H 5409 - DIESEL ENGINE



Sample No: VCP421134
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 6749



SAMPLE INFORMATION

Sample Number	VCP421134	VCP389215	VCP388743	VCP333001
Sample Date	26 Jul 2023	14 Feb 2023	21 Sep 2022	14 Apr 2022
Machine Hours	3524	3016	2586	2027
Oil Hours	0	3016	2586	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.7	13.0	13.0
Base Number (BN)	mg KOH/g	8.4	10.9	11.1	10.5
Oxidation (PA)	%	80	81	89	82

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	0.2	0.1
Nitration (PA)	%	61	62	72	70
Sulfation (PA)	%	58	61	66	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	4
Sodium	ppm	<1	2	2	2
Potassium	ppm	2	<1	1	<1



WEAR METALS

Iron	ppm	5	4	5	5
Copper	ppm	1	1	2	3
Lead	ppm	<1	1	1	1
Tin	ppm	1	<1	1	2
Aluminum	ppm	1	1	4	2
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	41	44	40	31
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1636	1744	1698	1670
Magnesium	ppm	495	518	512	600
Zinc	ppm	1104	1178	1100	1072
Phosphorus	ppm	911	962	930	942
Barium	ppm	11	0	0	0
Boron	ppm	43	51	42	55

Depot: ASCMAC
Unique No: 10782860
Signed: Wes Davis
Report Date: 14 Dec 2023



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GRAPHS

