



CONSTRUCTION EQUIPMENT

SWA333191 TRADE IN VOLVO L180H 004502 - DIESEL ENGINE



Sample No: VCP416273
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA333191 TRADE IN



SAMPLE INFORMATION

Sample Number	VCP416273	VCP417582	VCP392716	VCP364573
Sample Date	11 Sep 2023	14 Jun 2023	06 Mar 2023	26 Aug 2022
Machine Hours	11087	10570	10109	8634
Oil Hours	0	500	1000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.4	12.5	13.0
Base Number (BN)	mg KOH/g	9.4	10.5	9.7	11.5
Oxidation (PA)	%	71	79	80	88

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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	53	54	64	62
Sulfation (PA)	%	55	60	60	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	5	4
Sodium	ppm	1	2	2	2
Potassium	ppm	<1	1	0	0



WEAR METALS

Iron	ppm	1	3	7	5
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	2	2	5
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	45	41	42	33
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1646	1640	1581	1572
Magnesium	ppm	490	475	483	441
Zinc	ppm	1107	1027	1020	999
Phosphorus	ppm	929	841	816	831
Barium	ppm	0	0	0	0
Boron	ppm	39	44	31	30

Depot: VOLVO0093
Unique No: 10656231
Signed: Wes Davis
Report Date: 20 Sep 2023



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GRAPHS

