



CONSTRUCTION EQUIPMENT

CASCADE? FOREST PROD VOLVO L180H 4757 - DIESEL ENGINE



Sample No: VCP417528
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: CASCADE? FOREST PROD



SAMPLE INFORMATION

Sample Number	VCP417528	VCP399215	VCP345620	VCP343380
Sample Date	27 Jun 2023	05 Jan 2023	03 Mar 2022	21 Dec 2021
Machine Hours	12328	11028	9000	8495
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	13.0	13.5	12.9	12.6
Base Number (BN)	mg KOH/g	10.5	9.1	10.1	10.8
Oxidation (PA)	%	82	84	77	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

Soot %	%	0.3	0.5	0.2	0.2
Nitration (PA)	%	60	76	52	55
Sulfation (PA)	%	63	62	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	7	5	4
Sodium	ppm	4	5	2	2
Potassium	ppm	2	0	0	0



WEAR METALS

Iron	ppm	5	11	4	4
Copper	ppm	1	2	<1	2
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	3	1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	42	38	40
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1728	1748	1600	1782
Magnesium	ppm	510	510	507	505
Zinc	ppm	1135	1135	1066	1052
Phosphorus	ppm	923	926	925	941
Barium	ppm	<1	0	0	0
Boron	ppm	44	23	51	49

Depot: VOLVO1672
Unique No: 10535830
Signed: Wes Davis
Report Date: 30 Jun 2023



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VOLVO GRAPHS

