



CONSTRUCTION EQUIPMENT

SPM579629 VOLVO L180F 15445 - DIESEL ENGINE



Sample No: VCP418260
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM579629



SAMPLE INFORMATION

Sample Number	VCP418260	VCP332134	VCP375589	VCP328314
Sample Date	13 Jul 2023	17 Aug 2022	20 Jun 2022	24 Sep 2021
Machine Hours	23449	22564	0	21033
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT

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OIL CONDITION

Visc @ 100°C	cSt	12.8	13.8	13.1	12.7
Base Number (BN)	mg KOH/g	8.9	10.6	10.0	---
Oxidation (PA)	%	68	66	68	75



CONTAMINATION

Soot %	%	0.3	0.5	0.3	0.3
Nitration (PA)	%	63	67	61	63
Sulfation (PA)	%	59	62	60	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	6	3
Sodium	ppm	1	1	1	3
Potassium	ppm	3	6	0	<1



WEAR METALS

Iron	ppm	10	15	4	4
Copper	ppm	4	<1	<1	1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	2	2	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	40	47	51	35
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2117	2740	2348	1959
Magnesium	ppm	323	258	339	415
Zinc	ppm	1038	1190	1110	1172
Phosphorus	ppm	912	1026	959	1007
Barium	ppm	0	0	0	0
Boron	ppm	149	229	208	38

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.

Depot: VOLV00142
Unique No: 10561128
Signed: Wes Davis
Report Date: 18 Jul 2023



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GRAPHS

