



CONSTRUCTION EQUIPMENT

W02007270 VOLVO L350F 1597 - DIESEL ENGINE



Sample No: VCP418023
Oil Type: MOBIL 15W40
Job No: W02007270



SAMPLE INFORMATION

Sample Number	VCP418023	VCP369401	VCP377292	VCP310020
Sample Date	29 Jun 2023	02 Jan 2023	08 Jul 2022	31 Dec 2021
Machine Hours	17397	16414	15305	14493
Oil Hours	500	1000	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.3	11.8	12.8
Base Number (BN)	mg KOH/g	6.3	6.4	7.5	5.4
Oxidation (PA)	%	88	91	100	137



CONTAMINATION

Soot %	%	1	1	0.9	1.4
Nitration (PA)	%	84	83	83	102
Sulfation (PA)	%	74	71	74	93
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	4	4
Sodium	ppm	1	2	2	0
Potassium	ppm	1	<1	0	<1



WEAR METALS

Iron	ppm	26	28	32	56
Copper	ppm	3	2	5	21
Lead	ppm	4	3	4	20
Tin	ppm	<1	1	<1	1
Aluminum	ppm	3	2	1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	90	58	45	50
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1803	1899	1833	1757
Magnesium	ppm	544	527	497	343
Zinc	ppm	1011	1215	1041	996
Phosphorus	ppm	833	983	881	865
Barium	ppm	0	0	0	<1
Boron	ppm	106	31	43	33

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: VOLVO0002
Unique No: 10548397
Signed: Wes Davis
Report Date: 10 Jul 2023



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VOLVO GRAPHS

