



CONSTRUCTION EQUIPMENT

SPM595753 WM CRYSTAL VOLVO L150F 14630 - DIESEL ENGINE



Sample No: VCP413968
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM595753 WM CRYSTAL



SAMPLE INFORMATION

Sample Number	VCP413968	VCP383234	VCP372557	VCP350548
Sample Date	12 Sep 2023	24 Feb 2023	22 Aug 2022	15 Feb 2022
Machine Hours	15416	15388	15339	15249
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.8	13.7	14.1
Base Number (BN)	mg KOH/g	9.4	10.1	10.7	10.4
Oxidation (PA)	%	54	52	59	55



CONTAMINATION

Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	46	44	53	45
Sulfation (PA)	%	49	49	53	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	<1	5
Sodium	ppm	2	<1	0	1
Potassium	ppm	2	2	<1	3



WEAR METALS

Iron	ppm	1	<1	2	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	0	2	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	59	56	60	51
Nickel	ppm	<1	0	0	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	5	0	<1
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1043	1029	1032	1132
Magnesium	ppm	970	949	900	928
Zinc	ppm	1273	1250	1211	1189
Phosphorus	ppm	1074	993	1034	1020
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	3	5

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: VOLVO8885
Unique No: 10658047
Signed: Wes Davis
Report Date: 21 Sep 2023



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GRAPHS

