



CONSTRUCTION EQUIPMENT

VOLVO L150F 14205 - DIESEL ENGINE



Sample No: VCP312516
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312516	VCP312541	VCP405984	VCP401931
Sample Date	05 Dec 2023	24 Oct 2023	12 Sep 2023	09 Aug 2023
Machine Hours	25304	25033	24762	24538
Oil Hours	271	271	224	292
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.0	12.7	12.5
Base Number (BN)	mg KOH/g	7.5	8.5	10.2	10.1
Oxidation (PA)	%	64	68	79	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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	66	63	51	52
Sulfation (PA)	%	52	55	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	3	4
Sodium	ppm	2	5	1	2
Potassium	ppm	2	2	<1	0



WEAR METALS

Iron	ppm	3	3	2	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	4	5	2	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	125	118	47	39
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	1373	1643	1599	1689
Magnesium	ppm	696	759	481	504
Zinc	ppm	916	1093	896	872
Phosphorus	ppm	766	919	734	746
Barium	ppm	11	<1	0	0
Boron	ppm	130	111	58	56

Depot: SCHGRE
Unique No: 10782825
Signed: Don Baldrige
Report Date: 15 Dec 2023



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GRAPHS

