

CONSTRUCTION EQUIPMENT

SPM646960-10 VOLVO A45G 353251 - DIESEL ENGINE



Sample No: VCP436270

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No: SPM646960-10

VOLVO	MECODMATION				
	NFORMATION				
Sample Number		VCP436270	VCP396607	VCP415847	
Sample Date		20 Dec 2023	24 Oct 2023	20 Jul 2023	
Machine Hours		3045	2633	2242	
Oil Hours		0	0	0	
Oil Changed		N/A	Changed	Changed	
Sample Status		ATTENTION	ATTENTION	ATTENTION	
OIL CONDI	TION				
Visc @ 100°C	cSt	12.3	▲ 12.3	▲ 12.1	
Base Number (BN)		10.0	9.7	□ 10.1	
Oxidation (PA)	%	78	80	77	
Oxidation (171)	70	70	00	11	
VOLVO					
CONTAMII	NATION				
Water	%	NEG	NEG	NEG	
Soot %	%	■ 0.2	■0.3	□ 0.2	
Nitration (PA)	%	57	63	54	
Sulfation (PA)	%	59	61	59	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	■1.0	
Silicon	ppm	■ 4	5	4	
Sodium	ppm	2	3	2	
Potassium	ppm	2	<u></u> 2	<u> </u>	
VOLVO	TALC				
WEAR ME	IAL2				
Iron	ppm	■ 3	■8	5	
Copper	ppm	2	4	5	
Lead	ppm	1	< 1	< 1	
Tin	ppm	■<1	1	 <1	
Aluminum	ppm	2	2	< 1	
Chromium	ppm	■ 0	- <1	■0	
Molybdenum	ppm	46	6 5	6 9	
Nickel	ppm	■<1	1	 <1	
Titanium	ppm	0	<1	0	
Silver	ppm	0	0	■0	
Manganese	ppm	■ <1	< 1	 <1	
Vanadium	ppm	<1	<1	<1	
ADDITIVE	S				
Calcium		1565	1545	□ 1724	
Magnesium	ppm	500	506	■ 1724 ■ 519	
	ppm				
Zinc	ppm	1103	■1075	■ 1096	

■966

0

60

0

■36



ALTA EQUIPMENT COMPANY

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Diagnosis

No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot:VOLVO0090Unique No:10857553Signed:Don BaldridgeReport Date:01 Feb 2024

ppm

ppm

ppm

956

0

51

Phosphorus

Barium

Boron



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