- DIESEL ENGINE

SAMPLE INFORMATION

Sample No: VCP219018

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

Sample Number		VCP219018	VCP194693	VCP205127	
Sample Date		20 Sep 2017	04 May 2017	07 Dec 2016	
Machine Hours		1727	1149	498	
Oil Hours		600	500	0	
Oil Changed		Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
OIL COND	ITION				
Visc @ 100°C	cSt	13.68	■13.74	□13.54	
Oxidation (PA)	%	7 6	2 4	5 2	
CONTAMI	NATION				
Water	%	NEG	NEG	NEG	
Soot %	%	■0.9	0	□ 0.5	
Nitration (PA)	%	67	2 5	■ 58	
Sulfation (PA)	%	61	■33	5 3	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	■ 9	□10	2 4	
Sodium	ppm	■ 3	4	6	
Potassium	ppm	10	1	3	
WEAR ME	TALS				
Iron	ppm	25	2 8	5 3	
Copper	ppm	2	3	1 0	
Lead	ppm	1	< 1	< 1	
Tin	ppm	■ 0	<u> </u>	2	
Aluminum	ppm	6	7	1 4	
Chromium	ppm	2	_2	4	
Molybdenum	ppm	40	4 2	4 5	
Nickel	ppm	■<1	- <1	 <1	
Titanium	ppm	<1	<1	<1	
Silver	ppm	0	0	0	
Manganese	ppm	■ <1	1	6	
Vanadium	ppm	0	0	0	
ADDITIVES	5				
Calcium	ppm	1676	□1605	1226	
Magnesium	ppm	■ 530	555	■842	
Zinc	ppm	844	■906	1 033	
Phosphorus	ppm	775	783	■912	
Barium	ppm	0	0	- <1	
Boron	ppm	18	2 1	■32	

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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 condition of the oil is acceptable for the time in service.

Depot: VOLVO0093 Unique No: 7939221 Signed: Wes Davis Report Date: 25 Sep 2017

Contact/Location: KENNY HANEY - VOLVO0093

