Sample No: VCP409121

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: SWA311351 RANGO

ZAMPI F II	NFORMATION			
_	MOMMATION	VCD400121	VCD202021	
Sample Number		VCP409121	VCP382821	
Sample Date		21 Jul 2023	28 Apr 2023	
Machine Hours		11816	11182	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		ABNORMAL	ABNORMAL	
VOLVO				
OIL CONDI	TION			
Visc @ 100°C	cSt	13.6	13.1	
Base Number (BN)		■8.2	8.3	
Oxidation (PA)	%	59	67	
VOLVO	NATION			
CONTAMIN				
Soot %	%	■ 0.8	■1.3	
Nitration (PA)	%	67	77	
Sulfation (PA)	%	54	61	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	< 1.0	
Silicon	ppm	■ 9	<u>▲</u> 27	
Sodium	ppm	0	■3	
Potassium	ppm	2	2	
WEAR ME	ΤΔΙ ς			
_		=24		
Iron	ppm	2 4	4 0	
Copper	ppm	4	10	
Lead	ppm	1	1	
Tin Aluminum	ppm	□ 1	3	
Aluminum Chromium	ppm	2	<1	
	ppm	1	□<1 □66	
Molybdenum Nickel	ppm	■88 ▲ 9	<u>↓</u> 66	
Nickei Titanium	ppm		14 <1	
Silver	ppm	■ 0	0	
	ppm	■<1	2	
Manganese Vanadium	ppm	0	0	
variaululii	ppiii	U	U	
VOLVO	_			
ADDITIVE:	7			
Calcium	ppm	1129	□1150	
Magnesium	ppm	■ 905	■839	
Zinc	ppm	1202	1 162	
Phosphorus	ppm	1016	912	
Barium	ppm	■ 0	■0	
_			- 40	

ALTA CONSTRUCTION EQUIPMENT

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T:

F:

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The nickel level has decreased, but is still abnormal. All other 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.

Depot:VOLVO5055Unique No:10589087Signed:Don BaldridgeReport Date:08 Aug 2023

ppm

28

Boron



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