**Sample No:** VCP409098

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

Job No: SPM633674-10 CARMUSE

CAMPLE	NEODMATION			
	NFORMATION			
Sample Number		VCP409098	VCP390168	 
Sample Date		16 Nov 2023	08 Aug 2023	 
Machine Hours		1648	597	 
Oil Hours		0	0	 
Oil Changed		Changed	Changed	 
Sample Status		SEVERE	ATTENTION	 
OIL CONDI	TION			
Visc @ 100°C	cSt	<b>12.0</b>	<u></u> ▲ 10.9	 
Base Number (BN)	mg KOH/g	<b>11.8</b>	5.7	 
Oxidation (PA)	%	79	61	 
(17.)	, 0			
VOLVO	15.51011			
CONTAMI	NATION			
Water	%	NEG	NEG	 
Soot %	%	■ 0.6	0.9	 
Nitration (PA)	%	89	79	 
Sulfation (PA)	%	68	55	 
Glycol	%	0.10	NEG	 
Fuel	%	<1.0	1.3	 
Silicon	ppm	<b>■7</b>	<b>■</b> 32	 
Sodium	ppm	<b>1433</b>	0	 
Potassium	ppm	<b>4</b> 250	□0	 
			_	
VOLVO	TALC			
WEAR ME	IAL2			
Iron	ppm	<b>21</b>	<b>4</b> 5	 
Copper	ppm	<b>48</b>	■246	 
Lead	ppm	<b>■ &lt;1</b>	□0	 
Tin	ppm	<b>■&lt;1</b>	<b>4</b>	 
Aluminum	ppm	<b>5</b>	<b>3</b>	 
Chromium	ppm	<b>2</b>	<b>4</b>	 
Molybdenum	ppm	<b>■</b> 58	■87	 
Nickel	ppm	<u>^</u> 8	<b>4</b>	 
Titanium	ppm	<b>0</b>	0	 
Silver	ppm	<b>■</b> 0	<b>0</b>	 
Manganese	ppm	<b>-</b> <1	<u> </u>	 
Vanadium	ppm	0	0	 
VOLVO	-			
ADDITIVE:	7			
Calcium	ppm	<b>1701</b>	■2326	 
Magnesium	ppm	<b>479</b>	14	 
Zinc	ppm	<b>1125</b>	<b>1272</b>	 
Phosphorus	ppm	■920	■990	 
		_	_	

**0** 

**ALTA EQUIPMENT COMPANY - METRO WEST** 56195 PONTIAC TRAIL

NEW HUDSON, MI US 48165

Contact: NATE ROSZCZEWSKI nate.roszczewski@altaequipment.com T:

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## Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Valve wear is indicated. Sodium and/or potassium levels are high. There is a high concentration of glycol present in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO2990 **Unique No:** 10780142 Signed: Jonathan Hester Report Date: 13 Dec 2023

ppm

ppm

Barium

Boron

**0** 



## **CONSTRUCTION EQUIPMENT**





