



CITY OF SURREY FIRE DEPARTMENT R4-63282 SPARTAN 457AW40932C040520 - DIESEL ENGINE

Sample No: VPA052321
Oil Type: {unknown}

CAMPLE INFORM	ATION			
SAMPLE INFORM	ATIUN			
Sample Number		VPA052321	 	
Sample Date		17 Apr 2024	 	
Machine Hours		185994	 	
Oil Hours		0	 	
Oil Changed		N/A	 	
Sample Status		SEVERE	 	
OIL CONDITION				
Visc @ 100°C	cSt	7.0	 	
Oxidation (PA)	%	181	 	
CONTAMINATION				
Water	%	△ 0.376	 	
Soot %	%	0.57 C	 	
Nitration (PA)	%	45	 	
Sulfation (PA)	%	86	 	
Glycol	%	▲ >.70	 	
Fuel	%	<u>→</u> 5.1	 	
Silicon		■ 17	 	
Sodium	ppm	64	 	
Potassium	ppm ppm	▲ 168	 	
WEAR METALS				
Iron	ppm	<u> </u>	 	
Copper	ppm	104	 	
Lead	ppm	■9	 	
Tin	ppm	■<1	 	
Aluminum	ppm	7	 	
Chromium	ppm	0	 	
Molybdenum	ppm	■12	 	
Nickel	ppm	■ <1	 	
Titanium		0	 	
Silver	ppm	0	 	
		1	 	
Manganese Vanadium	ppm	0	 	
	ppm	U	 	
ADDITIVES				
Calcium	ppm	56	 	
Magnesium	ppm	■ 3	 	
Zinc	ppm	28	 	
Phosphorus	ppm	169	 	
Barium	ppm	0	 	
Boron	ppm	■35	 	

CULLEN DIESEL POWER - 695335

9300 192 ST SURREY, BC CA V4N 3R8 Contact: Michelle Sayers mns@cullendiesel.com T: (604)888-1211 F:

Diagnosis

We advise that you check for the source of the coolant leak. We recommend that you change the oil at the next available stoppage or outage. We advise that you flush the component thoroughly before refilling with oil. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.Iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Test for glycol is positive. There is a moderate amount of fuel present in the oil. There is a high concentration of glycol present in the oil. There is a light concentration of water present in the oil. Tests confirm the presence of fuel in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot:CULSURUnique No:5772468Signed:Kevin MarsonReport Date:26 Apr 2024





