

### **OIL ANALYSIS REPORT**

Sample Rating Trend

**DEGRADATION** 

# CN7452-L27

Component Gasoline Engine Fluid SUPER TECH 5W20 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Fuel content negligible. The water content is negligible. There is no indication of any contamination in the oil.

#### Fluid Condition

The BN level is low. The AN level is at the top-end of the recommended limit.

SAMPLE INFORM	ATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0751446		
Sample Date		Client Info		20 Oct 2022		
Machine Age	kms	Client Info		218854		
Oil Age	kms	Client Info		18276		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION		method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>150	12		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	5		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>155	2		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		35		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		78		
Manganese	ppm	ASTM D5185m		<1		
Magnesium						
	ppm	ASTM D5185m		600		
Calcium	ppm ppm	ASTM D5185m ASTM D5185m		600 1110		
	ppm	ASTM D5185m		1110		
Phosphorus Zinc	ppm ppm	ASTM D5185m ASTM D5185m		1110 734		
Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1110 734 869		
Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		1110 734 869 3847		 
Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		1110 734 869 3847 current	   history 1	   history 2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m <b>method</b> ASTM D5185m	>30	1110 734 869 3847 current 28	   history 1	   history 2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400	1110 734 869 3847 <u>current</u> 28 4	  history 1 	   history 2 
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	1110 734 869 3847 <u>current</u> 28 4 <1	  history 1 	  history 2 
Phosphorus Zinc 2015 Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel 2015	ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20 >4.0	1110 734 869 3847 <u>current</u> 28 4 <1 1.0	  history 1  	  history 2  
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water	ppm ppm ppm ppm ppm ppm ppm % %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5242 ASTM D3524	>30 >400 >20 >4.0 >0.2	1110 734 869 3847 <u>current</u> 28 4 <1 1.0 0.046	  history 1   	  history 2   
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water INFRA-RED	ppm ppm ppm ppm ppm ppm ppm % %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5244 ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000	1110 734 869 3847 <u>current</u> 28 4 <1 1.0 0.046 467.8	  history 1    	  history 2     
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm % % ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 ASTM D3524 ASTM D6304 ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000 limit/base	1110 734 869 3847 28 4 <1 1.0 0.046 467.8 current	  history 1      history 1	<ul> <li></li> <li></li> <li>history 2</li> <li></li> <li></li> <li></li> <li></li> <li></li> <li>history 2</li> </ul>



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