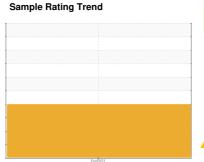


# **OIL ANALYSIS REPORT**





NX4099-L06

Component

**Gasoline Engine** 

SUPER TECH 5W20 (--- QTS)

## **DIAGNOSIS**

#### Recommendation

The oil is near the end of it's useful service life. recommend schedule an oil change. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

## Contamination

Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of seal material. The water content is negligible.

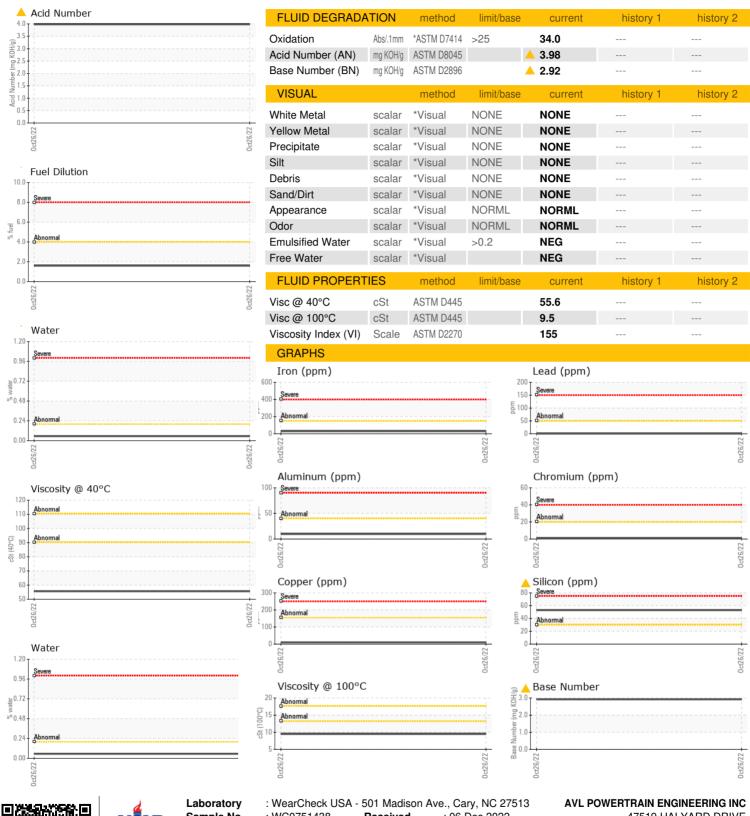
### Fluid Condition

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

				Oct2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0751438		
Sample Date		Client Info		26 Oct 2022		
Machine Age	kms	Client Info		64595		
Oil Age	kms	Client Info		49346		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history 1	history 2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history 1	history 2
ron	ppm	ASTM D5185m	>150	30		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>5	3		
Titanium	ppm	ASTM D5185m		6		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	10		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>155	10		
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		36		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m				
		AO IIVI DO TOOIII		100		
Manganese	ppm	ASTM D5185m		100 1		
-	ppm					
Magnesium		ASTM D5185m		1		
Magnesium Calcium	ppm	ASTM D5185m ASTM D5185m		1 498		
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		1 498 1390		
Magnesium Calcium Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		1 498 1390 725		
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	1 498 1390 725 939		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		1 498 1390 725 939 3921		
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method		1 498 1390 725 939 3921 current	    history 1	    history 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	>30	1 498 1390 725 939 3921 current  53	    history 1	    history 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	>30 >400	1 498 1390 725 939 3921  current  53 5	   history 1	   history 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	1 498 1390 725 939 3921  current  53 5 3	   history 1	   history 2
Magnesium Calcium 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  MEthod ASTM D5185m	>30 >400 >20 >4.0	1 498 1390 725 939 3921 current ▲ 53 5 3	history 1	history 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D3524 ASTM D6304	>30 >400 >20 >4.0 >0.2	1 498 1390 725 939 3921  current  53 5 3 1.6 0.054	history 1	history 2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  Method ASTM D5185m ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000	1 498 1390 725 939 3921 current ▲ 53 5 3 1.6 0.054 541.0	history 1	history 2
Silicon Sodium Potassium Fuel Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm % %	ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304	>30 >400 >20 >4.0 >0.2 >2000 limit/base	1 498 1390 725 939 3921 current  53 5 3 1.6 0.054 541.0 current	history 1 history 1	history 2 history 2 history 2



## OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number** 

: WC0751438 : 05710526

: 06 Dec 2022 Received

Diagnosed : 13 Dec 2022 Diagnostician : Jonathan Hester Test Package : MOB 2 ( Additional Tests: FUELDILUTION, KF, KV40, PercentFuel, TBN, VI ) Contact: Service Manager

47519 HALYARD DRIVE PLYMOUTH, MI US 48170-2438

: 10245101 To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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