

# **OIL ANALYSIS REPORT**

JX1376-L24

Component **Gasoline Engine** 

PENNZOIL 0W30 SYN (--- QTS)

# Sample Rating Trend



# **DIAGNOSIS**

# Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

# Contamination

Light fuel dilution occurring. Elemental level of silicon (Si) above normal indicating ingress of seal material. The water content is negligible.

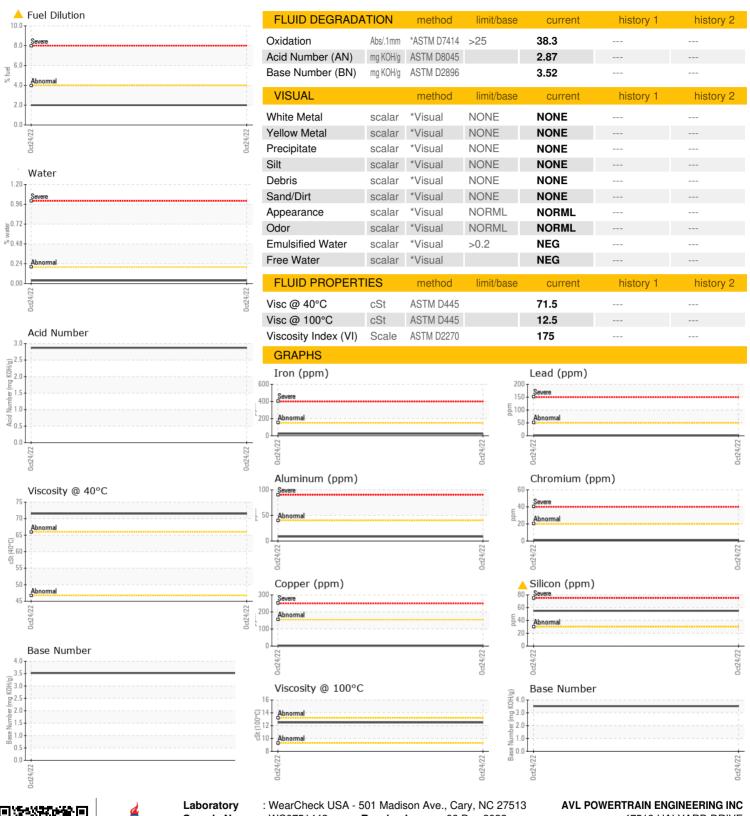
# **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.

				Dct2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		WC0751442		
Sample Date		Client Info		24 Oct 2022		
Machine Age	kms	Client Info		202260		
Oil Age	kms	Client Info		32824		
Oil Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
CONTAMINATION	٧	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	24		
Chromium	ppm	ASTM D5185m	>20	1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>40	9		
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		
	-  - · · ·	710 1111 20 100111		U		
ADDITIVES	le le	method	limit/base	current	history 1	history 2
ADDITIVES Boron	ppm		limit/base			
		method	limit/base	current	history 1	history 2
Boron	ppm	method ASTM D5185m	limit/base	current 148	history 1	history 2
Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	limit/base	current 148 0	history 1	history 2
Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 148 0 19	history 1  	history 2
Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current 148 0 19 <1	history 1	history 2
Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method  ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	current  148 0 19 <1 25	history 1	history 2
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current  148  0  19  <1  25  1849	history 1	history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current  148  0  19  <1  25  1849  656	history 1	history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current  148  0  19  <1  25  1849  656  913	history 1	history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base	current  148  0  19  <1  25  1849  656  913  2587	history 1	history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	limit/base >30	current  148  0  19  <1  25  1849  656  913  2587  current	history 1	history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >30	current  148 0 19 <1 25 1849 656 913 2587 current  ▲ 55	history 1 history 1	history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >30 >400	current  148 0 19 <1 25 1849 656 913 2587 current  ▲ 55 4	history 1 history 1	history 2 history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >30 >400 >20	current  148 0 19 <1 25 1849 656 913 2587 current  ▲ 55 4 3	history 1 history 1	history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >30 >400 >20 >4.0	current  148 0 19 <1 25 1849 656 913 2587 current  ▲ 55 4 3 ▲ 2.0	history 1 history 1	history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m	limit/base >30 >400 >20 >4.0 >0.2	current  148 0 19 <1 25 1849 656 913 2587 current  ▲ 55 4 3 ▲ 2.0 0.036	history 1 history 1	history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m ASTM D6304 ASTM D6304	limit/base >30 >400 >20 >4.0 >0.2 >2000	current  148 0 19 <1 25 1849 656 913 2587 current  ▲ 55 4 3 ▲ 2.0 0.036 368.5	history 1 history 1	history 2 history 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel Water ppm Water INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185m  ASTM D6304  ASTM D6304  method	limit/base >30 >400 >20 >4.0 >0.2 >2000 limit/base	current  148 0 19 <1 25 1849 656 913 2587  current  ▲ 55 4 3 ▲ 2.0 0.036 368.5  current	history 1 history 1 history 1 history 1	history 2 history 2 history 2 history 2



# OIL ANALYSIS REPORT





Sample No. Lab Number **Unique Number** 

: WC0751442

: 05710535 : 10245110 Received Diagnosed

: 06 Dec 2022 : 13 Dec 2022 Diagnostician : Jonathan Hester

47519 HALYARD DRIVE PLYMOUTH, MI US 48170-2438

Test Package : MOB 2 ( Additional Tests: FUELDILUTION, KF, KV40, PercentFuel, TBN, VI ) Contact: Service Manager Certificate L2367 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)

Contact/Location: Service Manager - AVLPLYWC

T: