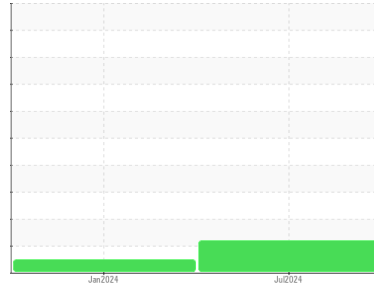




# OIL ANALYSIS REPORT

## Sample Rating Trend



FUEL



Area

{UNASSIGNED}

Machine Id

Shop Truck (S/N 2020)

Component

Gasoline Engine

Fluid

PENNZOIL PLATNIUM FULL SYNTHETIC 5W30 (9 LTR)

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

Light fuel dilution occurring.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0828663	WC0828649	---
Sample Date	Client Info		02 Jul 2024	16 Jan 2024	---
Machine Age	kms	Client Info	70000	65000	---
Oil Age	kms	Client Info	65000	7500	---
Oil Changed	Client Info		N/A	Changed	---
Sample Status			ABNORMAL	NORMAL	---

### CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>150	4	6	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>5	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)	>2	<1	0	---
Aluminum	ppm	ASTM D5185(m)	>40	1	4	---
Lead	ppm	ASTM D5185(m)	>50	0	<1	---
Copper	ppm	ASTM D5185(m)	>155	<1	<1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Antimony	ppm	ASTM D5185(m)		<1	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)		42	26	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		82	245	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		517	495	---
Calcium	ppm	ASTM D5185(m)		961	1260	---
Phosphorus	ppm	ASTM D5185(m)		536	622	---
Zinc	ppm	ASTM D5185(m)		613	719	---
Sulfur	ppm	ASTM D5185(m)		2036	1905	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

### CONTAMINANTS

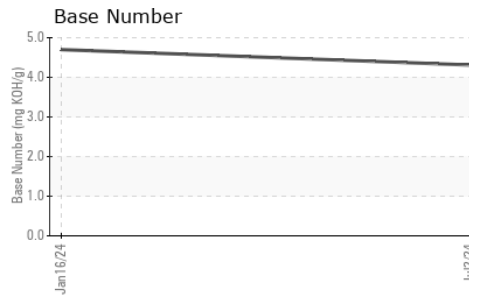
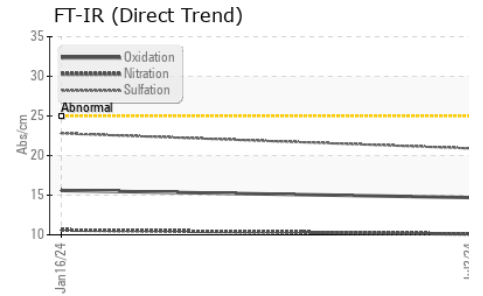
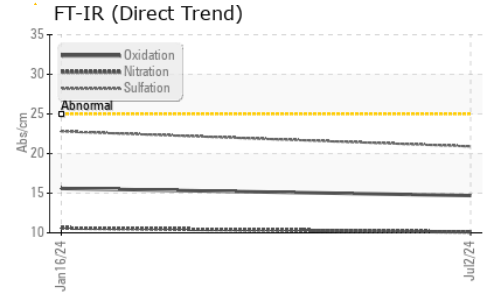
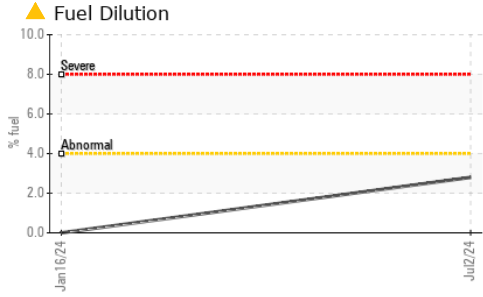
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>30	11	14	---
Sodium	ppm	ASTM D5185(m)	>400	3	2	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Fuel	%	ASTM D7593*	>4.0	▲ 2.8	<1.0	---

### INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*		0	0	---
Nitration	Abs/cm	ASTM D7624*	>20	10.1	10.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.9	22.8	---



# OIL ANALYSIS REPORT

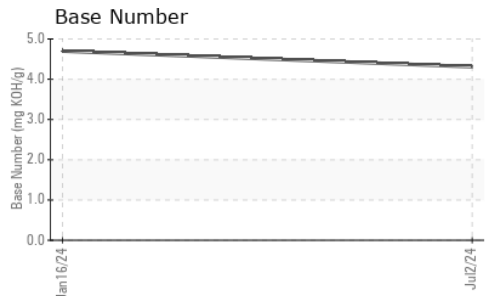
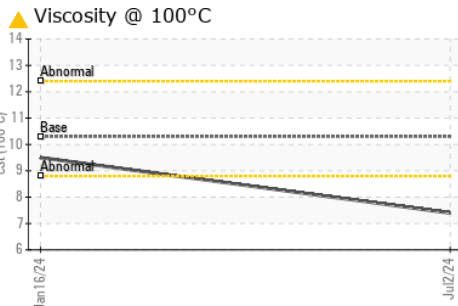
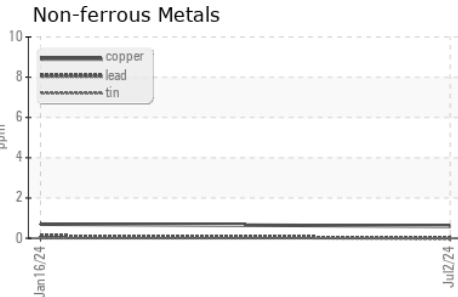
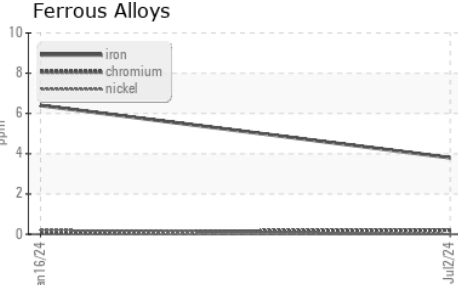


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>14.7</b>	15.6	---
Base Number (BN)	mg KOH/g	ASTM D2896*		<b>4.31</b>	4.70	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	Visual*		<b>NEG</b>	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	10.3	<b>▲ 7.4</b>	9.5	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0828663 **Received** : 04 Jul 2024  
**Lab Number** : **02645425** **Tested** : 05 Jul 2024  
**Unique Number** : 5802964 **Diagnosed** : 05 Jul 2024 - Wes Davis  
**Test Package** : IND 2 ( Additional Tests: FuelDilution, PercentFuel )

**CAN ART ALUMINUM EXTRUSION INC**  
 428 JUTRAS DRIVE SOUTH  
 TECUMSEH, ON  
 CA N8N 5C5  
 Contact: Angelo Bertoia  
 angelo@canart.com  
 T: (519)727-4399  
 F: (519)727-6434

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.