

# **OIL ANALYSIS REPORT**

Sample Rating Trend





nponent **Front Left Final Drive** 

# PETRO CANADA TRAXON 80W90 (--- GAL)

### Recommendation

Resample at the next service interval to monitor.

454

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920837	LH0256757	
Sample Date		Client Info		21 Mar 2024	24 Jun 2023	
Machine Age	hrs	Client Info		0	1968	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>500	110	184	
Chromium	ppm	ASTM D5185(m)	>10	1	3	
Nickel	ppm	ASTM D5185(m)	>10	0	0	
Titanium	ppm	ASTM D5185(m)		<1	<1	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>25	3	5	
Lead	ppm	ASTM D5185(m)	>25	0	0	
Copper	ppm	ASTM D5185(m)	>50	<1	<1	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)	>5	0	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)	243	136	8	
Barium	ppm	ASTM D5185(m)	1	<1	4	
Molybdenum	ppm	ASTM D5185(m)		0	<1	
Manganese	ppm	ASTM D5185(m)		2	4	
Magnesium	ppm	ASTM D5185(m)	2	5	8	
Calcium	ppm	ASTM D5185(m)	6	232	740	
Phosphorus	ppm	ASTM D5185(m)	987	841	710	
Zinc	ppm	ASTM D5185(m)	1	131	327	
Sulfur	ppm	ASTM D5185(m)	21530	14662	9643	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	17	20	
Sodium	ppm	ASTM D5185(m)		2	6	
Potassium	ppm	ASTM D5185(m)	>20	1	2	



## **OIL ANALYSIS REPORT**

Visc 180 -	osity @ 40°C	
170 Abnor	mal	1
160-		
() 150 () 150 () 140 S 130		
<sup>43</sup> 130-		
120		
110 - Abnor	mal	
100		4
Jun24/2		Mar21/24
ηr		Ma

	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	Visual*	NONE	NONE	VLITE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	Precipitate	scalar	Visual*	NONE	NONE	NONE	
	Silt	scalar	Visual*	NONE	LIGHT	NONE	
	Debris	scalar	Visual*	NONE	NONE	NONE	
	Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
	Appearance	scalar	Visual*	NORML	NORML	NORML	
	Odor	scalar	Visual*	NORML	NORML	NORML	
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	
	Free Water	scalar	Visual*		NEG	NEG	
	FLUID PROPER	TIES	method	limit/base	current	history1	history2
	Visc @ 40°C	cSt	ASTM D7279(m)	141.0	123	109	
	SAMPLE IMAGE	S	method	limit/base	current	history1	history2
	Color						no image
				-			Ŭ
	Bottom						no imago
	Bottom						no image
							no image
	GRAPHS						no image
	GRAPHS Iron (ppm)			150-	Lead (ppm)		no image
m	GRAPHS Iron (ppm)				Lead (ppm)		no image
	GRAPHS Iron (ppm)			<sup>100</sup>	т:		no image
	GRAPHS Iron (ppm)			E 100	Severe Abnormal		no image
	GRAPHS Iron (ppm)			E 100	Severe Abnormal		no image
	GRAPHS Iron (ppm)			<sup>100</sup>	Severe Abnormal B	uppm)	no image
	GRAPHS Iron (ppm)			47/12 W 47/12 W 30	Severe Abnormal		no image
	GRAPHS Iron (ppm)			47/12 W 47/12 W 30	Abnormal C2/H2/UNP Chromium (p		no image
	GRAPHS Iron (ppm)			4700 500 4701 4701 4701 4701 4701 4701 4701 47	Abnormal Abnormal Chromium (p		no image
	GRAPHS Iron (ppm) 2000 Anormal 627 2000 Aluminum (ppm) 1500 500 Ahonomal 000 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 1500 15			42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12/2mm 42/12m	Severe Abnormal Chromium (p		no image
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	GRAPHS Iron (ppm) 2000 Abnomal City Fund Aluminum (ppm) 500 Copper (ppm) 2000 City Fund Copper (ppm) 2000 City Fund City Fund Cit			47/12 Wdd 50. 47/12 Wdd 50. 47/12 Wdd 0. 47/12 Wdd 0. 300 300	Abnormal Chromium (p Severe Abnormal Chromium (p Silicon (ppm)		no image
	GRAPHS Iron (ppm) 2000 Ahormal Copper (ppm) 2000 Copper (ppm) 2000 Copper (ppm) 2000 Copper (ppm) 2000 Copper (ppm) 2000 Copper (ppm) 2000 Copper (ppm) 2000 Copper (ppm) Copper (ppm)			47/12/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Severe Abnormal Chromium (p Severe Chromium (p Severe Chromal Silicon (ppm) Severe Abnormal		no image
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num num	GRAPHS Iron (ppm) Copper (ppm)			47/12/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	Severe Adnormal EClybum Chromium (p Adnormal Silicon (ppm)		no image
udd udd	GRAPHS Iron (ppm) Abnormal Aluminum (ppm) Severe Abnormal Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm) Copper (ppm)			4201 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4200 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 400 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4000 4	Severe Abnormal Chromium (p Severe Abnormal Silicon (ppm) Severe Abnormal E2772un Silicon (ppm) Severe Abnormal E2772un Severe Abnormal Silicon (ppm)		no image
man man	GRAPHS Iron (ppm) Severe Abnormal Aluminum (ppm) Severe Abnormal Copper (ppm) Copper (ppm) Severe Abnormal Copper (ppm) Viscosity @ 40°C			47112 mW 300 47112 mW 300 471120	Anomal Chromium (p Severe Anomal Chromium (p Silicon (ppm) Silicon (ppm) Severe Abnomal C2/72un Additives		no image

 

 Accredited Laboratory
 Unique Number
 : 5762426
 Diagnosed
 : 16 Apr 2024 - Wes Davis

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

 100 MACINTOSH BLVD VAUGHAN, ON CA L4K 4P3 Contact: Service Team service.team@roni.ca T: F:

Report Id: RONVAU [WCAMIS] 02629294 (Generated: 04/16/2024 18:31:50) Rev: 1

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ISO 17025:2017

Contact/Location: Service Team - RONVAU Page 2 of 2