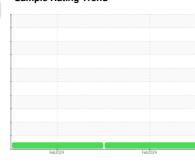


# **OIL ANALYSIS REPORT**

Sample Rating Trend







# SPC-02

Component **Transmission** 

PETRO CANADA 15W40 (--- GAL)

## DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

There is no indication of any contamination in the oil

## **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Feb 2024	Feb 2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0118523	PCA0118527	
Sample Date		Client Info		18 Feb 2024	14 Feb 2024	
Machine Age	hrs	Client Info		7813	7720	
Oil Age	hrs	Client Info		98	5	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
CONTAMINAT	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	7	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m		<1	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>50	1	1	
Lead	ppm	ASTM D5185m	>50	3	2	
Copper	ppm	ASTM D5185m	>200	22	28	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	2	
Barium	ppm	ASTM D5185m		0	3	
Molybdenum	ppm	ASTM D5185m		2	5	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		50	64	
Calcium	ppm	ASTM D5185m		2542	3494	
Phosphorus	ppm	ASTM D5185m		909	1247	
Zinc	ppm	ASTM D5185m		1133	1501	
Sulfur	ppm	ASTM D5185m		3663	5661	
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	7	7	
Sodium	ppm	ASTM D5185m		15	14	
Potassium	ppm	ASTM D5185m	>20	<1	3	
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
A 1151 1 /ACC	1/011	AOTH BOOK		4 40	4.0=	

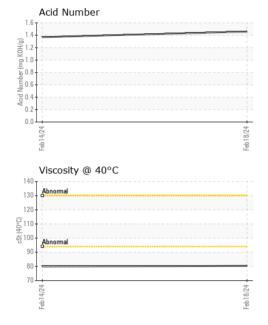
1.46

Acid Number (AN) mg KOH/g ASTM D8045

1.37



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		80.4	79.9	
SAMPLE IMAG	SES	method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Iron (ppm)			20	Lead (ppm)		
Iron (ppm)			20	Severe		
Iron (ppm)			20 E 10	Severe		
Iron (ppm)  Severe Abnormal			톱10	Severe		
Iron (ppm)  Severe Abnormal			톱10	Severe		
Iron (ppm) Severe Abnormal				Feb 14/24		
Iron (ppm)  Severe Abnormal  Abnormal  Aluminum (ppm)			Feb18/24	Abnormal Abnormal Abnormal Abnormal Achromium (p	pm)	
Aluminum (ppm)			Feb 18/24	Abnomal	pm)	
Iron (ppm)  Severe  Aluminum (ppm)  Severe			Feb18/24	Abnomal	pm)	
Abnormal  Aluminum (ppm)  Severe Abnormal			# 100 mdd. 100 mdd. 110 md. 1	Abnormal  Chromium (p	pm)	
Abnormal  Aluminum (ppm)			# 100 mdd. 100 mdd. 110 md. 1	Abnormal  Chromium (p	pm)	
Feere Abnormal Severe Abnormal General			Feb 18/24	Abnormal  Chromium (p	pm)	
Aluminum (ppm)  Severe Abnormal  Aluminum (ppm)  Severe Abnormal  Copper (ppm)			Feb18/24 Feb18/24 Mpp Ppm	Abnormal  Abnormal  Abnormal  Abnormal  Abnormal  Severe  Abnormal  Assevere  Silicon (ppm)	pm)	
Aluminum (ppm)  Severe Abnormal  Copper (ppm)			Feb 18/24 Feb 18/24 Mm Ppm Ppm Ppm Ppm Ppm Ppm Ppm Ppm Ppm Pp	Abnormal  Abnormal  Abnormal  Abnormal  Abnormal  Severe  Abnormal  Abnormal  Severe	pm)	
Abnomal  Copper (ppm)  Severe Abnomal  Copper (ppm)			Ppm	Abnormal  Abnormal  Abnormal  Abnormal  Abnormal  Abnormal  Abnormal  Silicon (ppm)  Severe	pm)	
Aluminum (ppm)  Severe Abnormal  Copper (ppm)  Severe Abnormal			#2/81/99 #2/81/	Abnormal  Severe  Abnormal  Abnormal  Severe  Abnormal  Abnormal  Severe  Abnormal	pm)	
Abnomal			Feb 18/24 Feb 18	Severe  Chromium (p  Severe  Abnormal  Abnormal  Silicon (ppm)  Abnormal  Abnormal	pm)	
Aluminum (ppm)  Severe Abnormal  Copper (ppm)  Severe Abnormal  Viscosity @ 40°C			Feb 18/24 Feb 18	Severe  Chromium (p  Severe  Abnormal  Abnormal  Silicon (ppm)  Abnormal  Abnormal	pm)	
Abnormal  Abnormal  Abnormal  Abnormal  Abnormal  Abnormal  Copper (ppm)  Severe Abnormal  Copper (ppm)  Severe Abnormal  Viscosity @ 40°C			#2/81/99 #2/81/	Severe  Chromium (p  Severe  Abnormal  Abnormal  Silicon (ppm)  Abnormal  Abnormal	pm)	





Laboratory Sample No.

Lab Number : 06098607 Unique Number: 10896837

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0118523 Received

**Tested** Diagnosed

: 23 Feb 2024 : 26 Feb 2024

: 26 Feb 2024 - Don Baldridge

Feb14/24

SCRAP METAL SERVICES (SMS Mill Services LLC)

1500 COMMERCIAL AVE MINGO JUNCTION, OH

US 43938 Contact: STAN MANN

Test Package : MOB 2 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)

smann@scrapmetalservices.com T:

Contact/Location: STAN MANN - SCRMIN

F: