

## **OIL ANALYSIS REPORT**

Area

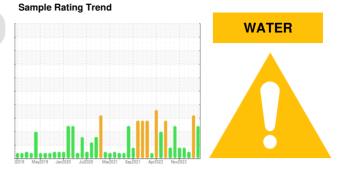
# **COOK ROOM 1**

B53369 NORTH THERMABLEND COOKER 1 (S/N 1800938426000002)

Gearbox

Fluid

PETRO CANADA PURITY FG EP GEAR OIL 220 (39 LTR)



### DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Appearance is hazy. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

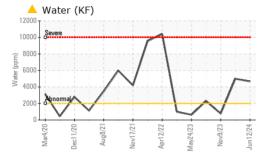
#### **Fluid Condition**

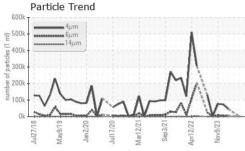
The AN level is acceptable for this fluid.

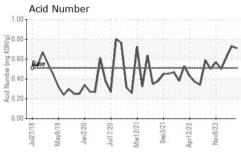
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0842522	WC0907969	WC0880508
Sample Date		Client Info		12 Jun 2024	16 May 2024	13 Feb 2024
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	37	27	35
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	<1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	0	0
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		6	5	6
Phosphorus	ppm	ASTM D5185m		510	471	477
Zinc	ppm	ASTM D5185m		7	0	0
Sulfur	ppm	ASTM D5185m		1376	1368	1226
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	2
Sodium	ppm	ASTM D5185m		2	1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.2	<b>0.467</b>	<b>△</b> 0.499	
ppm Water	ppm	ASTM D6304	>2000	<b>4670</b>	<b>4990</b>	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		1636		45009
Particles >6µm		ASTM D7647	>5000	891		4252
Particles >14µm		ASTM D7647	>640	152		20
Particles >21µm		ASTM D7647	>160	51		6
Particles >38µm		ASTM D7647	>40	8		1
Particles >71µm		ASTM D7647	>10	1		1
Oil Cleanliness		ISO 4406 (c)	>/19/16	18/17/14		23/19/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.51	0.71	0.73	0.62

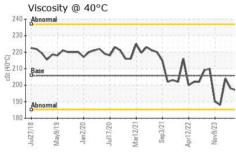


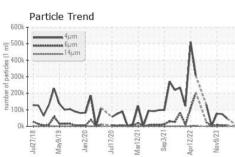
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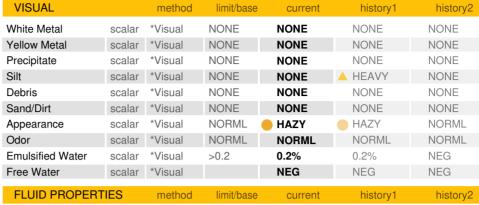












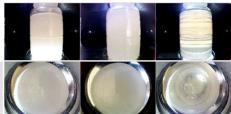
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Visc @ 40°C	cSt	ASTM D445	205.8	197	198	204

SAMPLE IMAGES	method	limit/base	current	

Color

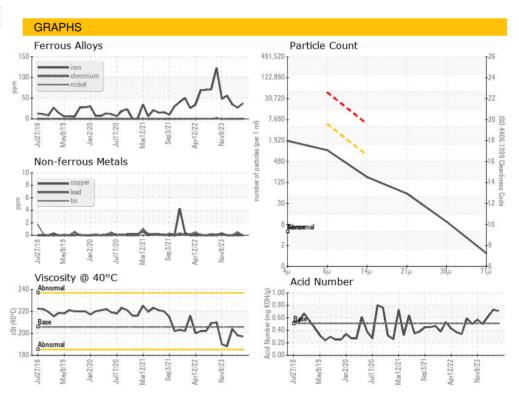
S





historv1

history2







Laboratory Sample No.

: WC0842522 Lab Number : 06208698 Unique Number : 11076159

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 Jun 2024 **Tested** : 20 Jun 2024

Diagnosed : 20 Jun 2024 - Jonathan Hester

Test Package : IND 2 ( Additional Tests: KF, PrtCount ) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

PROGRESSIVE PROCESSING INC

1205 CHAVENELLE CT DUBUQUE, IA

US 52002 Contact: BLAINE PURDY bepurdy@hormel.com

T: (563)557-4500 F: (563)557-4508

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: BLAINE PURDY - PRODUB