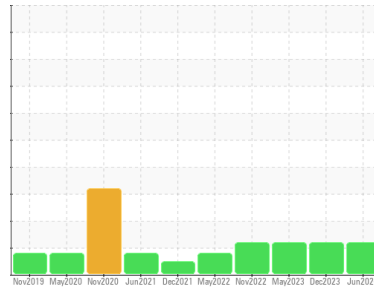




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area  
**SECONDARY CHILL CHAMBER**  
 Machine Id  
**STROETER 11 - SECONDARY (S/N 201708-0041)**  
 Component  
**Gearbox**  
 Fluid  
**PETRO CANADA PURITY FG SYNTH EP GEAR 220 (5 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>USP0012480</b>	USP0005338	USP243746
Sample Date	Client Info		<b>06 Jun 2024</b>	08 Dec 2023	27 May 2023
Machine Age	mths	Client Info	<b>0</b>	0	11
Oil Age	mths	Client Info	<b>0</b>	0	11
Oil Changed	Client Info		<b>N/A</b>	N/A	Changed
Sample Status			<b>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>10</b>	12	44
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>0</b>	0	0
Tin	ppm	ASTM D5185m >25	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>&lt;1</b>	<1	2
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m	<b>1</b>	0	0
Calcium	ppm	ASTM D5185m	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m	<b>454</b>	427	420
Zinc	ppm	ASTM D5185m	<b>1</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>1176</b>	1021	1541

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>2</b>	2	4
Sodium	ppm	ASTM D5185m	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Water	%	ASTM D6304 >0.2	<b>0.018</b>	0.004	0.003
ppm Water	ppm	ASTM D6304 >2000	<b>181</b>	48	32.4

## FLUID CLEANLINESS

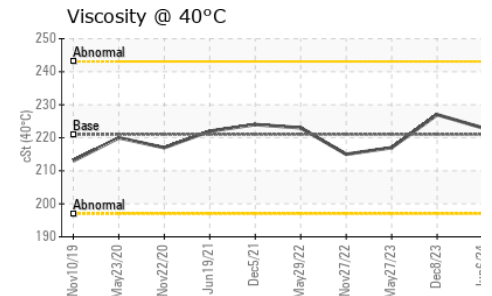
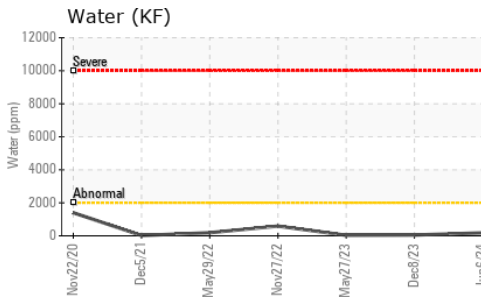
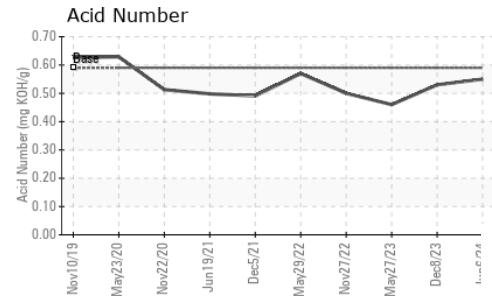
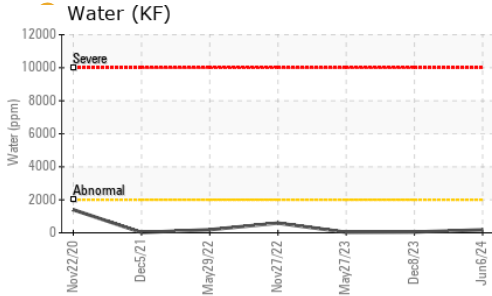
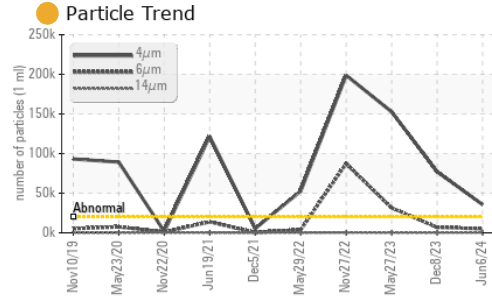
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	<b>35555</b>	77142	152648
Particles >6µm	ASTM D7647	>5000	<b>5056</b>	6821	31445
Particles >14µm	ASTM D7647	>640	<b>67</b>	54	81
Particles >21µm	ASTM D7647	>160	<b>5</b>	12	15
Particles >38µm	ASTM D7647	>40	<b>0</b>	2	3
Particles >71µm	ASTM D7647	>10	<b>0</b>	2	2
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<b>22/20/13</b>	23/20/13	24/22/14

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.59	<b>0.55</b>	0.53	0.46



# 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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	221	223	227

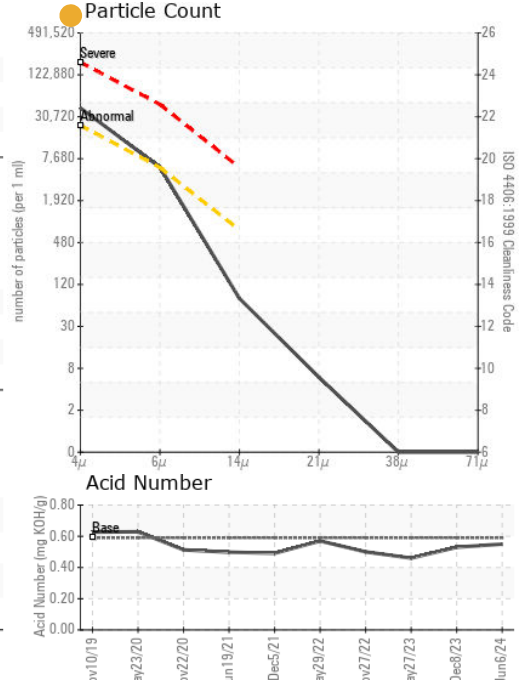
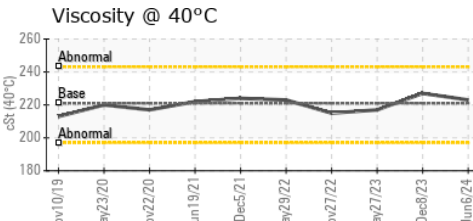
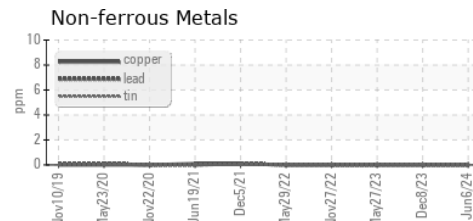
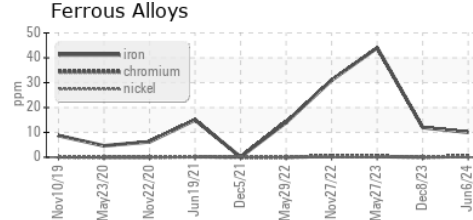
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom



## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : USP0012480  
 Lab Number : 06202777  
 Unique Number : 11070238  
 Test Package : IND 2

Received : 07 Jun 2024  
 Tested : 10 Jun 2024  
 Diagnosed : 11 Jun 2024 - Doug Bogart

**TYSON - SMART CHICKEN MBA**  
 333 SOUTH 3RD ST  
 TECUMSEH, NE  
 US 68450  
 Contact: DAVE BILLUPS  
 dbillups@smartchicken.com  
 T: (402)786-1000  
 F: (402)335-2502

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)