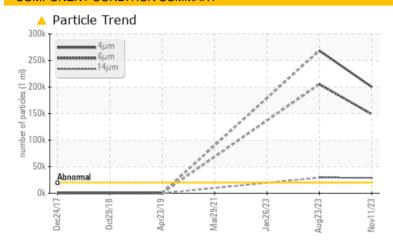


Sample Rating Trend

### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

#### PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	NORMAL	SEVERE
Particles >4µm	ASTM D7647	>20000	<u> </u>	268531	
Particles >6µm	ASTM D7647	>5000	🔺 148999	205274	
Particles >14µm	ASTM D7647	>640	<u> </u>	29381	
Particles >21µm	ASTM D7647	>160	🔺 6787	4761	
Particles >38µm	ASTM D7647	>40	<u> </u>	27	
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> </u>	25/25/22	

Customer Id: OSCOSC Sample No.: WC0866195 Lab Number: 06012388 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component if applicable.		

#### HISTORICAL DIAGNOSIS



23 Aug 2023 Diag: Doug Bogart



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

# view report

view report

#### 26 Jan 2023 Diag: Jonathan Hester



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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample.Moderate concentration of visible metal present. Gear wear is indicated. Appearance is unacceptable Free water present. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.



#### 29 Mar 2021 Diag: Don Baldridge

No corrective action is recommended at this time. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. The iron level has decreased, but is still abnormal. Moderate concentration of visible metal present. All other component wear rates are normal. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.







## **OIL ANALYSIS REPORT**

Sample Rating Trend

ISO

#### Area HYBRID [10023667910] Machine Id B57517 (S/N 30804) Component

Gearbox

PETRO CANADA PURITY FG EP GEAR OIL 220 (7 QTS)

#### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

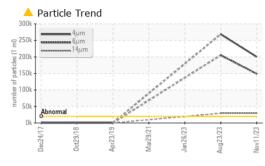
. 220 (7 QTS)		Dec2017	Oct2018 Apr2019	Mar2021 Jan2023 Aug2023	Nov2023	
SAMPLE INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0866195	WC0836315	WC0751732
Sample Date		Client Info		11 Nov 2023	23 Aug 2023	26 Jan 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		3	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				ABNORMAL	NORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	74	166	1402
Chromium	ppm	ASTM D5185m	>15	1	5	13
Nickel	ppm	ASTM D5185m	>15	0	<1	1
Titanium	ppm	ASTM D5185m		1	4	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	3
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	<1	1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	le le con	method	limit/base		history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	5	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
Manganese	ppm	ASTM D5185m		2	5	6
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		2	45	4
Phosphorus	ppm	ASTM D5185m		80	93	86
Zinc	ppm	ASTM D5185m		0	5	0
Sulfur	ppm	ASTM D5185m		839	1046	692
CONTAMINANTS		method	limit/base		history1	history2
Silicon		ASTM D5185m		5	6	9
	ppm		>50	5	0	1
Sodium	ppm	ASTM D5185m	× 20	0	1	
Potassium	ppm %	ASTM D5185m ASTM D6304	>20			0
Water ppm Water		ASTM D6304 ASTM D6304		0.003 29.1	0.015 157.6	<ul><li>▲ 0.619</li><li>▲ 6190</li></ul>
FLUID CLEANLIN	ppm	method	limit/base			history2
				current	history1	
Particles >4µm		ASTM D7647	>20000		268531	
Particles >6µm		ASTM D7647		▲ 148999	205274	
Particles >14µm		ASTM D7647	>640	A 29139	29381	
Particles >21µm		ASTM D7647		▲ 6787	4761	
Particles >38µm		ASTM D7647	>40	<u>▲</u> 52	27	
Particles >71µm		ASTM D7647		1	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/24/22	25/25/22	
FLUID DEGRADA		method	limit/base		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.51	0.21	0.22	0.07

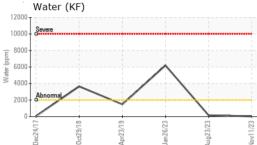
Report Id: OSCOSC [WUSCAR] 06012388 (Generated: 11/22/2023 11:52:41) Rev: 1

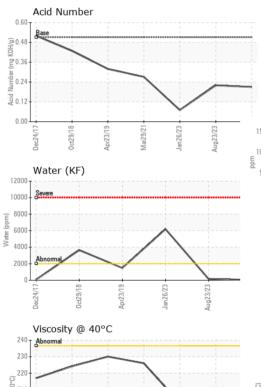
Contact/Location: WADE MYERS - OSCOSC

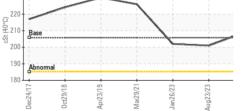


# **OIL ANALYSIS REPORT**









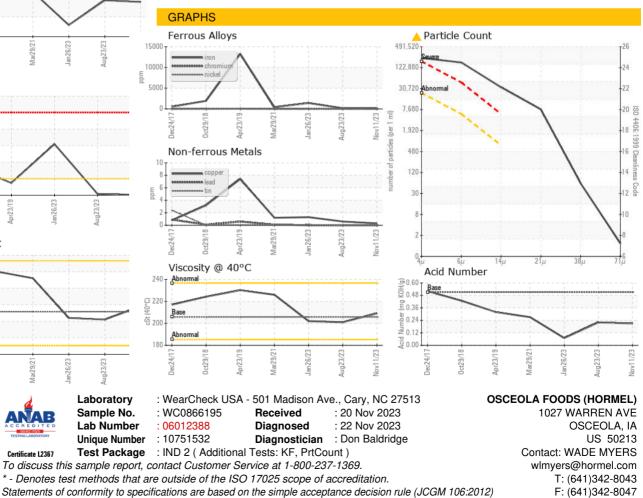
回流

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	🔺 MILKY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG	▲ 1.0
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	205.8	209	201	202
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
					-00-	

Color



Bottom



Contact/Location: WADE MYERS - OSCOSC