



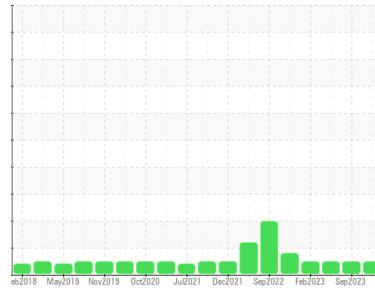
# OIL ANALYSIS REPORT

## Sample Rating Trend

**NORMAL**



Area  
**[360512]**  
 Machine Id  
**REX-RTOH TURBINE**  
 Component  
**Turbine**  
 Fluid  
**PETRO CANADA HYDREX AW 32 (120 LTR)**



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

#### 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>WC0706559</b>	WC0860992	WC0706570
Sample Date	Client Info		<b>27 Dec 2023</b>	25 Sep 2023	25 May 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >15	<b>0</b>	0	<1
Chromium	ppm	ASTM D5185(m) >4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m) >10	<b>&lt;1</b>	0	<1
Lead	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m) >5	<b>3</b>	3	2
Tin	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m)	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Barium	ppm	ASTM D5185(m) 0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m) 50	<b>51</b>	51	51
Phosphorus	ppm	ASTM D5185(m) 330	<b>338</b>	350	362
Zinc	ppm	ASTM D5185(m) 430	<b>412</b>	423	404
Sulfur	ppm	ASTM D5185(m) 760	<b>779</b>	751	770
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

### CONTAMINANTS

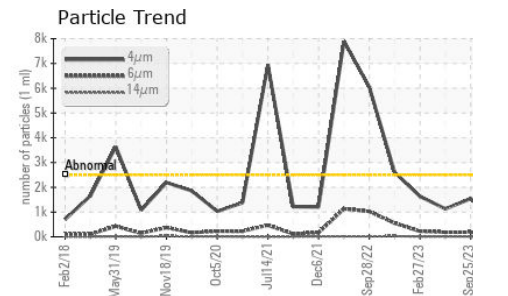
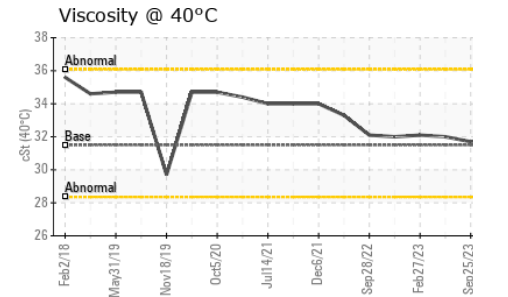
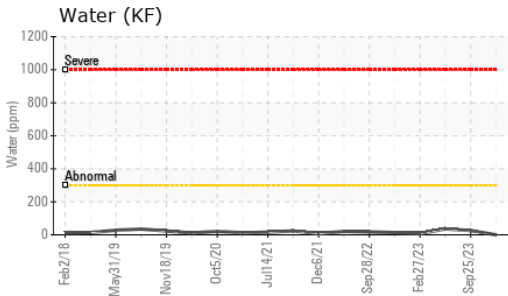
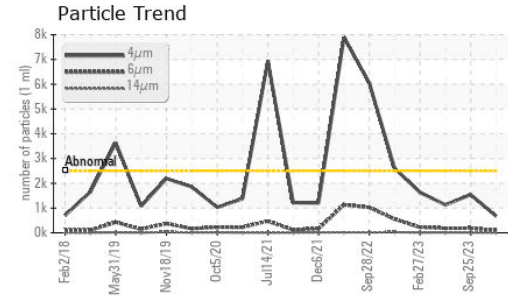
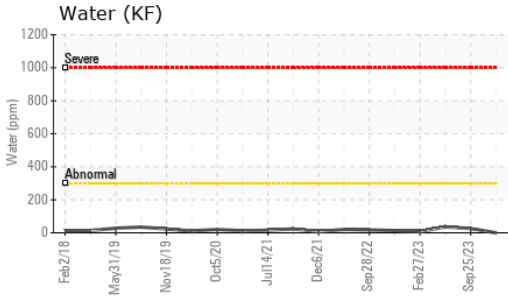
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >15	<b>0</b>	<1	0
Sodium	ppm	ASTM D5185(m)	<b>0</b>	<1	0
Potassium	ppm	ASTM D5185(m) >20	<b>2</b>	9	<1
Water	%	ASTM D6304* >0.03	<b>0.00</b>	0.003	0.003
ppm Water	ppm	ASTM D6304* >300	<b>0</b>	26.1	36.0

### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	<b>675</b>	1540	1130
Particles >6µm	ASTM D7647	>640	<b>96</b>	189	183
Particles >14µm	ASTM D7647	>80	<b>4</b>	8	13
Particles >21µm	ASTM D7647	>20	<b>1</b>	2	3
Particles >38µm	ASTM D7647	>4	<b>1</b>	1	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>18/16/13	<b>17/14/9</b>	18/15/10	17/15/11



# OIL ANALYSIS REPORT

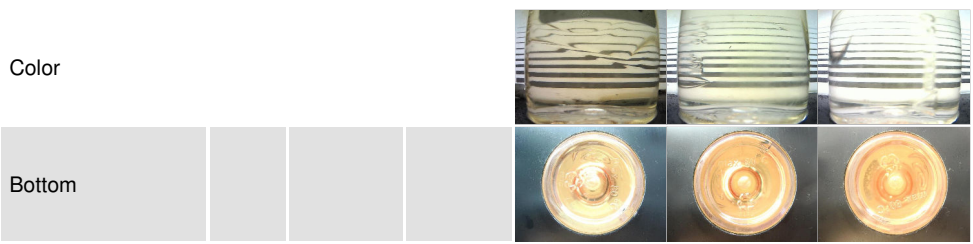


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.50	<b>0.49</b>	0.50	0.49

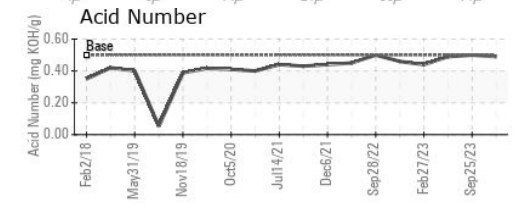
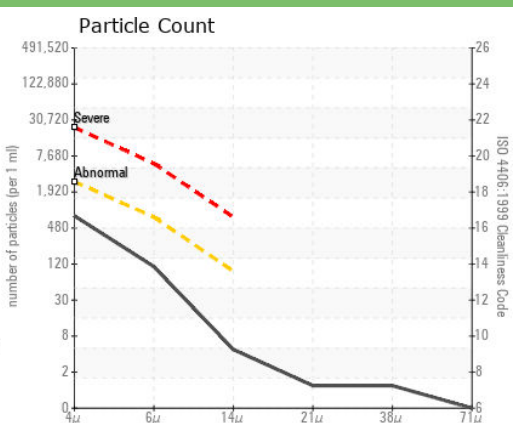
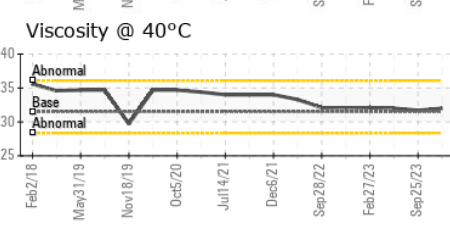
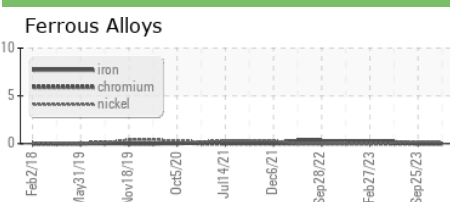
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.03	<b>NEG</b>	NEG	NEG
Free Water	scalar	Visual*		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	31.5	<b>32.0</b>	31.7	32.0

SAMPLE IMAGES		method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory Sample No.** : WC0706559  
**Lab Number** : 02605899  
**Unique Number** : 5706985  
**Test Package** : IND 2

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **ONTARIO CLEAN WATER AGENCY**  
 : WC0706559 **Received** : 02 Jan 2024 2307 LAKESHORE RD. WEST  
 : 02605899 **Diagnosed** : 03 Jan 2024 MISSISSAUGA, ON  
 : 5706985 **Diagnostician** : Kevin Marson CA L5J 1J9  
 : IND 2 Contact: Hisham Alkurdi halkurdi@ocwa.com  
 T: (905)822-6197

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