

# **OIL ANALYSIS REPORT**

[172360] **OVEN 3** 

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 32 (5 GAL)

# Sample Rating Trend



# **DIAGNOSIS**

# Recommendation

Check seals and/or filters for points of contaminant entry. We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

All component wear rates are normal.

# Contamination

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

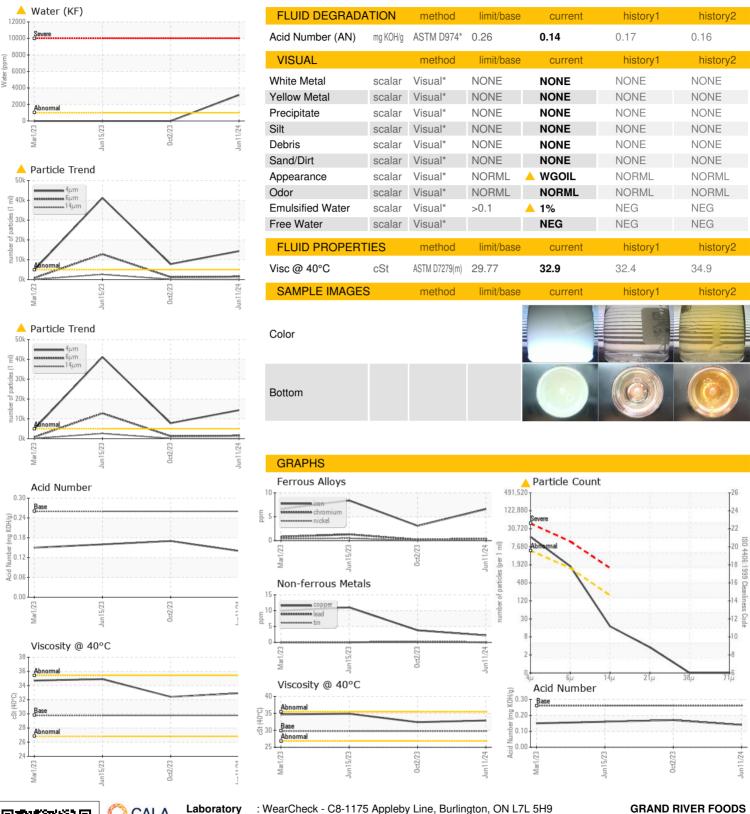
### **Fluid Condition**

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898873	WC0850461	WC0789530
Sample Date		Client Info		11 Jun 2024	02 Oct 2023	15 Jun 2023
Machine Age	mths	Client Info		0	0	0
Oil Age	mths	Client Info		0	3	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ATTENTION	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	7	3	8
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>10	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	0	0	<1
Lead	ppm	ASTM D5185(m)	>10	0	<1	0
Copper	ppm	ASTM D5185(m)	>75	2	4	11
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		<1	<1	2
Calcium	ppm	ASTM D5185(m)		2	2	<1
Phosphorus	ppm	ASTM D5185(m)		442	435	454
Zinc	ppm	ASTM D5185(m)		9	10	26
Sulfur	ppm	ASTM D5185(m)		820	838	1543
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	4	4
Sodium	ppm	ASTM D5185(m)		1	1	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	1
Water	%	ASTM D6304*	>0.1	<u> </u>		
ppm Water	ppm	ASTM D6304*	>1000	<u>▲</u> 3150		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>14355</b>	7797	<b>4</b> 1214
Particles >6µm		ASTM D7647	>1300	<u> </u>	1246	<b>▲</b> 12822
Particles >14µm		ASTM D7647	>160	15	96	<b>▲</b> 2582
Particles >21µm		ASTM D7647		3	35	<b>▲</b> 789
Particles >38µm		ASTM D7647	>10	0	6	<u>^</u> 21
Particles >71µm		ASTM D7647	>3	0	1	2
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 21/18/11	20/17/14	<b>2</b> 3/21/19



# **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WC0898873 : 02642609 Unique Number : 5800148

Received : 18 Jun 2024 Tested Diagnosed

: 20 Jun 2024 : 20 Jun 2024 - Kevin Marson

Test Package : IND 2 ( Additional Tests: KF )

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.

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