

## **OIL ANALYSIS REPORT**

### Area TUMBLE B37183 - W AMFEC HYD RES (S/N 960787)

Hydraulic System

### PETRO CANADA PURITY FG AW HYDRAULIC 46 (175 GAL)

#### DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

#### Wear

All component wear rates are normal.

#### Contamination

Appearance is hazy. There is a light concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

#### Fluid Condition

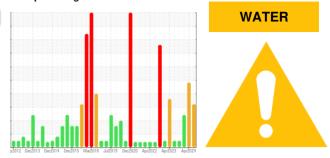
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0947163	WC0914015	WC0856687
Sample Date		Client Info		10 Jul 2024	12 Apr 2024	11 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1	2	2
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	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	1	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	2
Calcium	ppm	ASTM D5185m		0	1	2
Phosphorus	ppm	ASTM D5185m		420	441	446
Zinc	ppm	ASTM D5185m		0	6	2
Sulfur	ppm	ASTM D5185m		571	615	524
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	3	2
Sodium	ppm	ASTM D5185m		-	<1	6
Potassium	ppm	ASTM D5185m	>20	0	0	2
Water	%	ASTM D6304		▲ 0.272	▲ 90.0	▲ 0.118
ppm Water	ppm	ASTM D6304	>500	▲ 2720	▲ 900000	▲ 1180
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000			1800
Particles >6µm		ASTM D7647	>1300			304
Particles >14µm		ASTM D7647	>160			12
Particles >21µm		ASTM D7647				2
Particles >38µm		ASTM D7647	>10			1
Particles >71µm		ASTM D7647				1
Oil Cleanliness		ISO 4406 (c)	>20/17/14			18/15/11
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.26	0.24		0.24
	- 0					

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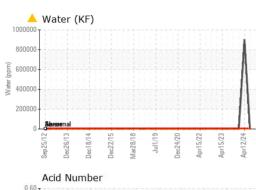
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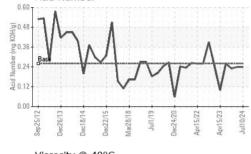
Sample Rating Trend

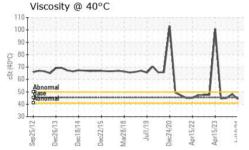




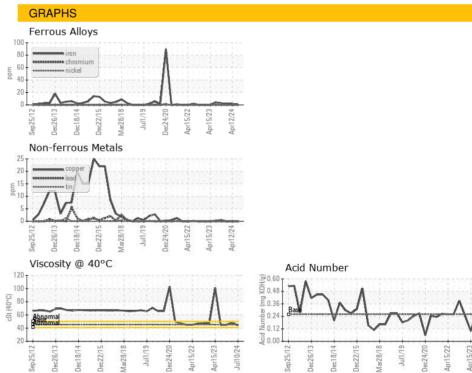
# **OIL ANALYSIS REPORT**







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	🔺 MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	🛑 MILKY	NORML	- HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	0.2%	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	>10%	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.36	44.1		48.1
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						
Bottom						(184)



**OSCEOLA FOODS (HORMEL)** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0947163 Received : 17 Jul 2024 1027 WARREN AVE Lab Number : 06239140 Tested : 19 Jul 2024 OSCEOLA, IA Unique Number : 11127974 Diagnosed : 19 Jul 2024 - Don Baldridge US 50213 Test Package : IND 2 (Additional Tests: KF) Contact: WADE MYERS Certificate 12367 wlmyers@hormel.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (641)342-8043 \* - 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) F: (641)342-8047

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