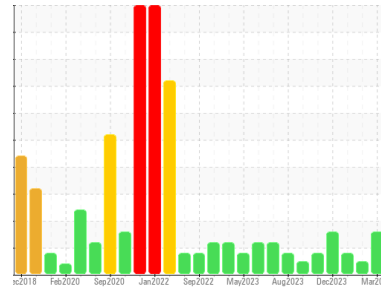




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Area

**KC-139 [10024086476]**

Machine Id

**B46315 - CENTRIFUGE ALFA LAVAL AFPX513XGD-74CG (S/N 4138485/2006)**

Component

**Gearbox**

Fluid

**PETRO CANADA ENDURATEX SYNTHETIC EP 320 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. There is too much water present in this sample to perform a particle count.

### Wear

All component wear rates are normal.

### Contamination

Free water present.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0907919</b>	WC0894824	WC0880557
Sample Date	Client Info		<b>29 Mar 2024</b>	03 Mar 2024	10 Jan 2024
Machine Age	mths	Client Info	<b>0</b>	0	0
Oil Age	mths	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>24</b>	17	24
Chromium	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m >15	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	0	2
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>11</b>	7	13
Tin	ppm	ASTM D5185m >25	<b>5</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 33	<b>7</b>	2	1
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	3
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m 5	<b>2</b>	0	0
Calcium	ppm	ASTM D5185m 5	<b>7</b>	0	2
Phosphorus	ppm	ASTM D5185m 437	<b>373</b>	265	367
Zinc	ppm	ASTM D5185m 5	<b>41</b>	14	0
Sulfur	ppm	ASTM D5185m 5000	<b>15988</b>	11404	18923

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>5</b>	2	3
Sodium	ppm	ASTM D5185m	<b>3</b>	1	0
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	1
Water	%	ASTM D6304 >0.2	<b>0.127</b>	---	---
ppm Water	ppm	ASTM D6304 >2000	<b>1270</b>	---	---

## FLUID CLEANLINESS

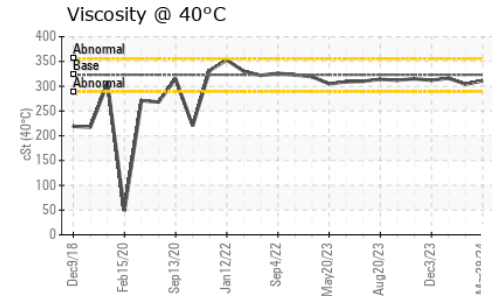
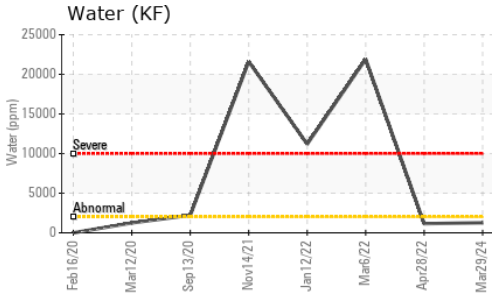
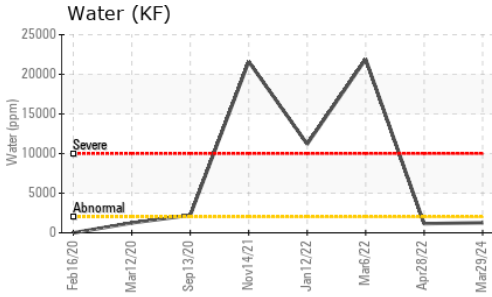
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	9911	▲ 45048
Particles >6µm	ASTM D7647	>5000	---	832	4756
Particles >14µm	ASTM D7647	>640	---	47	109
Particles >21µm	ASTM D7647	>160	---	12	19
Particles >38µm	ASTM D7647	>40	---	0	0
Particles >71µm	ASTM D7647	>10	---	0	0
Oil Cleanliness	ISO 4406 (c)	>21/19/16	---	20/17/13	▲ 23/19/14

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.7	<b>0.81</b>	0.87	0.74



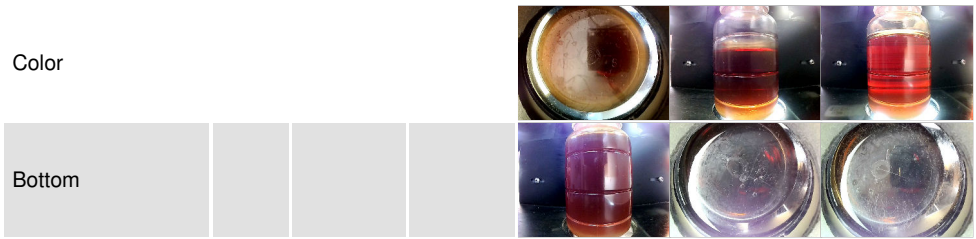
# OIL ANALYSIS REPORT



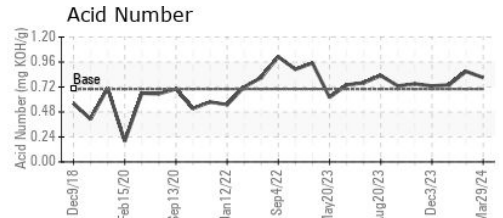
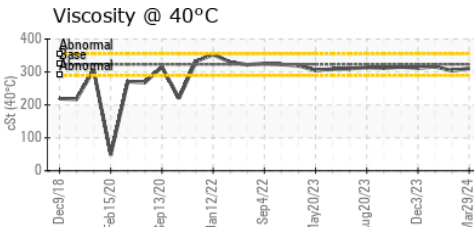
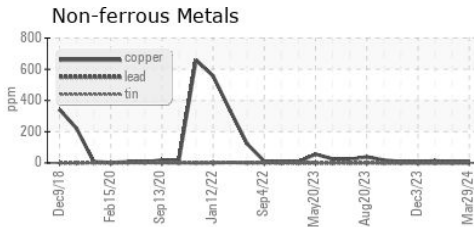
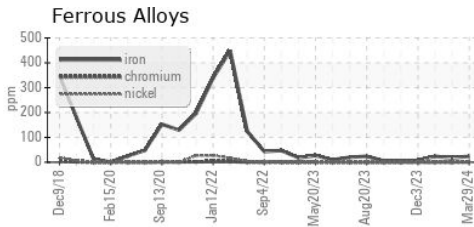
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual	▲ 2.0	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 323	311	304	316

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0907919 **Received** : 08 Apr 2024  
**Lab Number** : 06141315 **Tested** : 10 Apr 2024  
**Unique Number** : 10966123 **Diagnosed** : 10 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, PrtCount )

**HORMEL FOODS - AUSTIN**  
 1101 NORTH MAIN ST  
 AUSTIN, MN  
 US 55912  
 Contact: RYAN LOWE  
 rslowe@hormel.com  
 T: (507)437-5674  
 F: (507)437-9805

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)