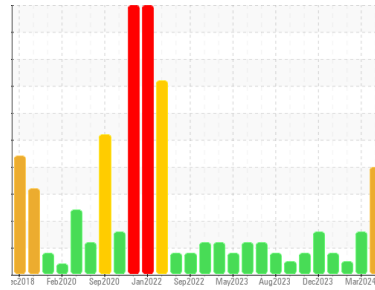




OIL ANALYSIS REPORT

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

Appearance is hazy. There is a light concentration of water present in the oil. 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		WC06147310	WC0907919	WC0894824
Sample Date	Client Info		11 Apr 2024	29 Mar 2024	03 Mar 2024
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 33	2	7	2
Barium	ppm	ASTM D5185m 5	<1	0	0
Molybdenum	ppm	ASTM D5185m	1	0	0
Manganese	ppm	ASTM D5185m	2	<1	0
Magnesium	ppm	ASTM D5185m 5	4	2	0
Calcium	ppm	ASTM D5185m 5	14	7	0
Phosphorus	ppm	ASTM D5185m 437	336	373	265
Zinc	ppm	ASTM D5185m 5	74	41	14
Sulfur	ppm	ASTM D5185m 5000	13901	15988	11404

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	2	5	2
Sodium	ppm	ASTM D5185m	<1	3	1
Potassium	ppm	ASTM D5185m >20	2	2	0
Water	%	ASTM D6304 >0.2	▲ 0.338	0.127	---
ppm Water	ppm	ASTM D6304 >2000	▲ 3380	1270	---

FLUID CLEANLINESS

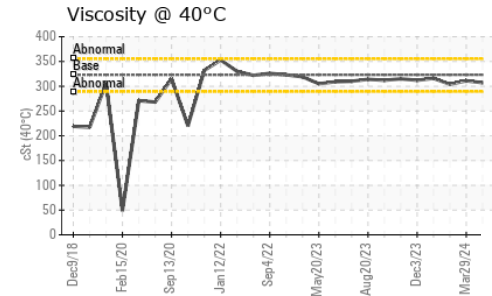
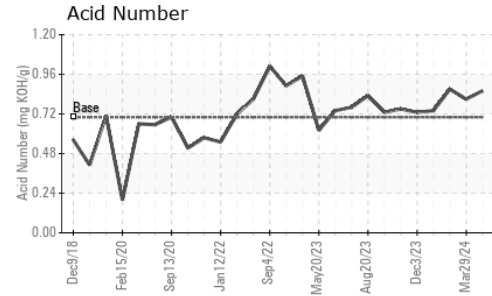
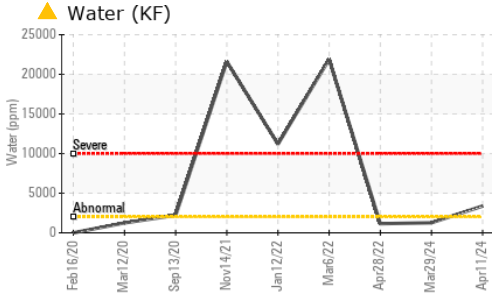
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>20000	---	---	9911
Particles >6µm	ASTM D7647	>5000	---	---	832
Particles >14µm	ASTM D7647	>640	---	---	47
Particles >21µm	ASTM D7647	>160	---	---	12
Particles >38µm	ASTM D7647	>40	---	---	0
Particles >71µm	ASTM D7647	>10	---	---	0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

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.7	0.86	0.81	0.87



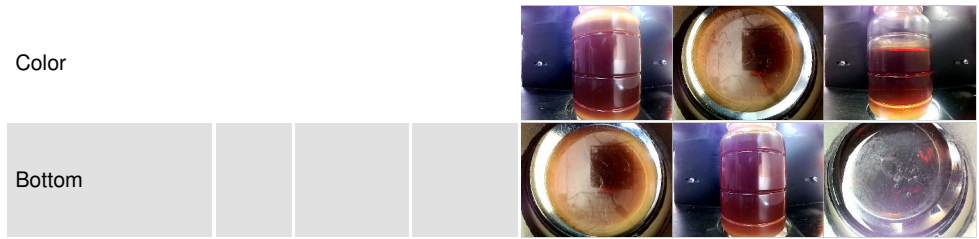
OIL ANALYSIS REPORT



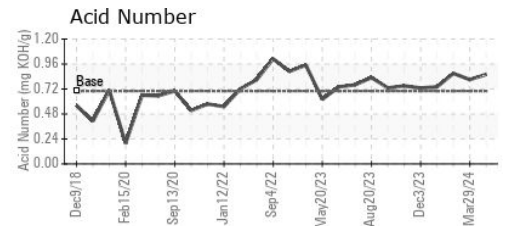
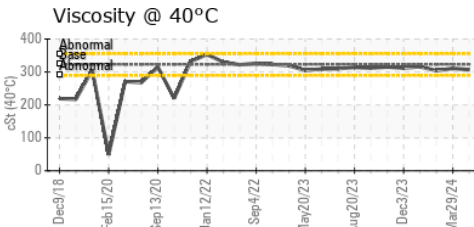
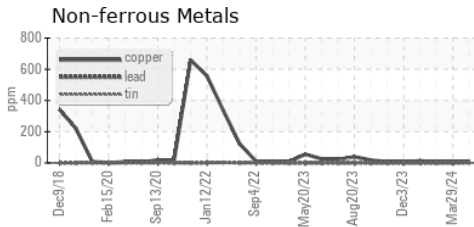
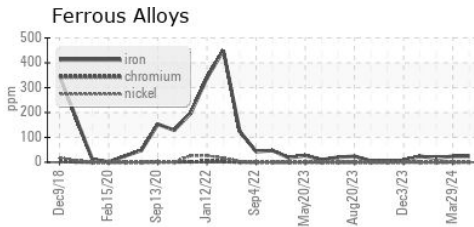
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	323	307	311

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06147310 **Received** : 12 Apr 2024
Lab Number : 06147310 **Tested** : 16 Apr 2024
Unique Number : 10977388 **Diagnosed** : 16 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)