

OIL ANALYSIS REPORT

WH-100 Machine Id B25970 - STORK GEARBOX #8 (3RD ON CHILL SECTION) Component

Gearbox Fluid

PETRO CANADA ENDURATEX WG 680 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0880594	WC0856019	WC0826085
Sample Date		Client Info		10 Jan 2024	29 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	21	46	6
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	13	13	8
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	0	0	0
Barium	ppm		1	3	0	0
Molybdenum	ppm	ASTM D5185m	1	0	0	0
Manganese	ppm		1	0	<1	0
Magnesium	ppm	ASTM D5185m	1	0	0	0
Calcium	ppm		1	<1	<1	0
Phosphorus	ppm	ASTM D5185m	1	49	1	1
Zinc	ppm		1	0	14	0
Sulfur	ppm	ASTM D5185m	3114	3004	2450	3177
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	<1	<1
Sodium	ppm	ASTM D5185m		0	1	<1
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.2	0.037	0.162	
ppm Water	ppm	ASTM D6304	>2000	370	1620	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ 19615		e 215293
Particles >6µm		ASTM D7647	>2500	2361		43659
Particles >14µm		ASTM D7647	>320	54		176
Particles >21µm		ASTM D7647	>80	8		56
Particles >38µm		ASTM D7647	>20	0		6
Particles >71µm		ASTM D7647	>4	0		0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/18/13		• 25/23/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

mg KOH/g ASTM D8045 0.43

Acid Number (AN)

Contact/Location: RYAN LOWE - HORAUS

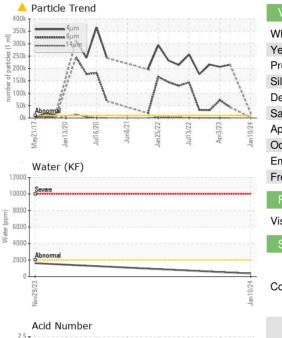
1.24

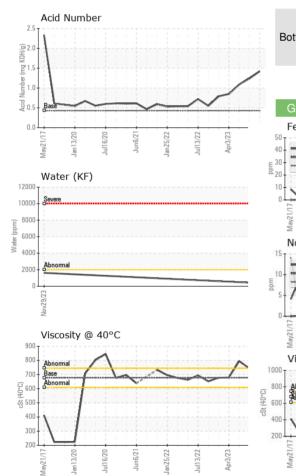
1.42

1.09

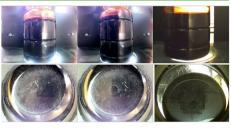


OIL ANALYSIS REPORT





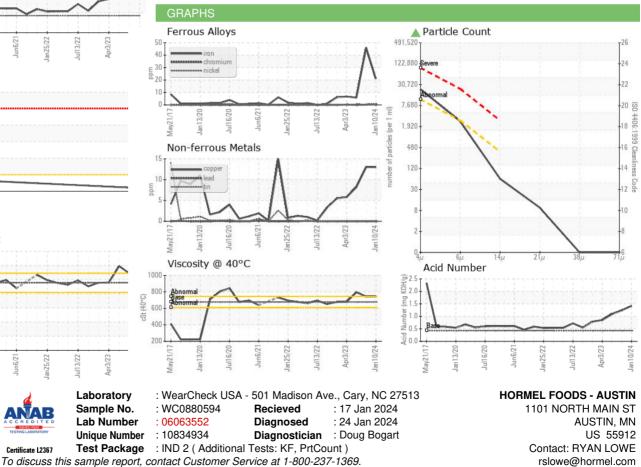
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	🔺 MODER	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	0.2%	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	676.7	745	743	▲ 794
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						



Bottom

* - 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)



Report Id: HORAUS [WUSCAR] 06063552 (Generated: 01/24/2024 11:39:48) Rev: 1

Certificate L2367

Contact/Location: RYAN LOWE - HORAUS

T: (507)437-5674

F: (507)437-9805