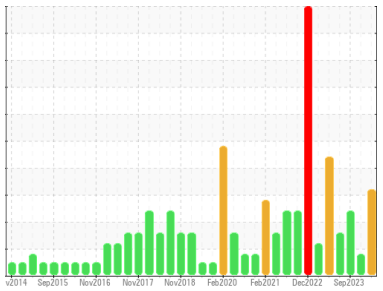
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Area
RP-101
Machine Id
B57006 - COOKER DISCHARGE BEARING
Component
Gearbox
Fluid
PETRO CANADA SYNDURO SHB ISO 460 (--- QTS)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear
An increase in the copper level is noted. All other component wear rates are normal.

Contamination
There is a high amount of particulates present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0894916**	WC0856111	WC0850183
Sample Date		Client Info		**18 May 2024**	18 Nov 2023	04 Sep 2023
Machine Age	mls	Client Info		**0**	0	0
Oil Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**14**	<1	20
Chromium	ppm	ASTM D5185m	>15	**0**	0	0
Nickel	ppm	ASTM D5185m	>15	**0**	2	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**0**	1	<1
Lead	ppm	ASTM D5185m	>100	**<1**	<1	<1
Copper	ppm	ASTM D5185m	>200	**105**	11	56
Tin	ppm	ASTM D5185m	>25	**0**	<1	0
Vanadium	ppm	ASTM D5185m		**<1**	<1	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	2	0
Barium	ppm	ASTM D5185m	5.0	**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**<1**	0	<1
Magnesium	ppm	ASTM D5185m	5.0	**<1**	3	0
Calcium	ppm	ASTM D5185m	5.0	**<1**	2	0
Phosphorus	ppm	ASTM D5185m	60	**30**	38	35
Zinc	ppm	ASTM D5185m	5.0	**36**	0	0
Sulfur	ppm	ASTM D5185m	1900	**2548**	3924	2560

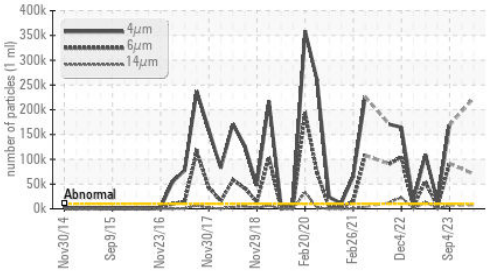
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**<1**	<1	<1
Sodium	ppm	ASTM D5185m		**<1**	0	<1
Potassium	ppm	ASTM D5185m	>20	**<1**	4	2

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	▲ **223468**	---	▲ 169004
Particles >6µm		ASTM D7647	>2500	▲ **70410**	---	▲ 91732
Particles >14µm		ASTM D7647	>320	▲ **7116**	---	▲ 6422
Particles >21µm		ASTM D7647	>80	▲ **1323**	---	▲ 936
Particles >38µm		ASTM D7647	>20	▲ **29**	---	2
Particles >71µm		ASTM D7647	>4	**2**	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ **25/23/20**	---	▲ 25/24/20

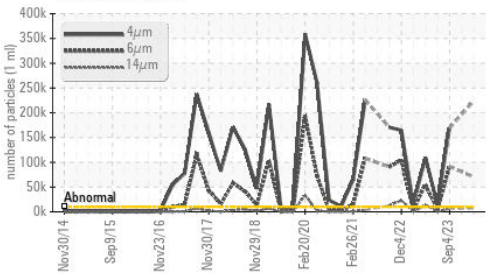
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.3	**0.55**	1.06	0.48

OIL ANALYSIS REPORT

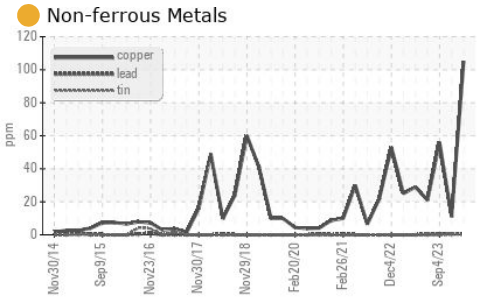
Particle Trend



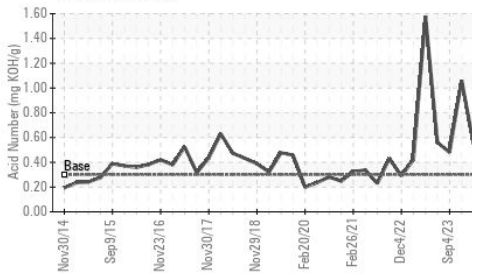
Particle Trend



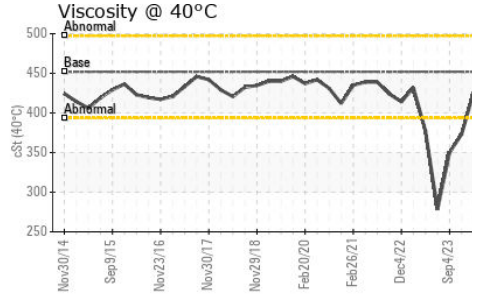
Non-ferrous Metals



Acid Number



Viscosity @ 40°C



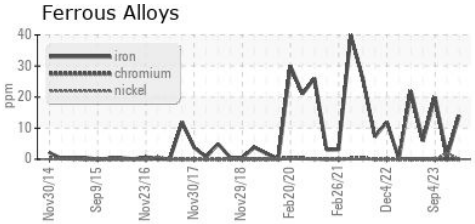
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	▲ HEAVY	NONE
Sand/Dirt	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	**NEG**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	452	**426**	● 373	● 350

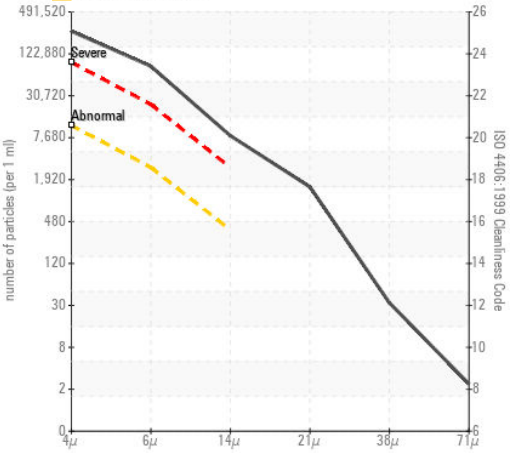
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						

GRAPHS

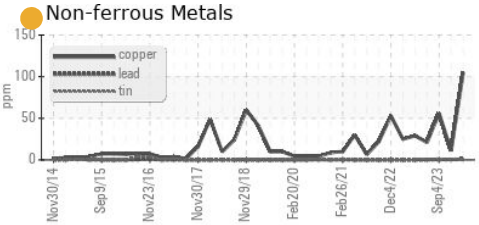
Ferrous Alloys



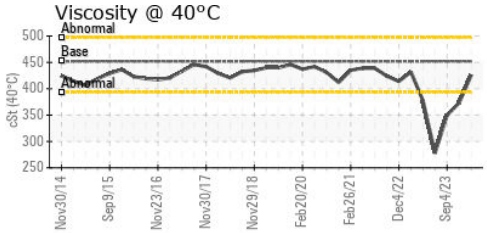
Particle Count



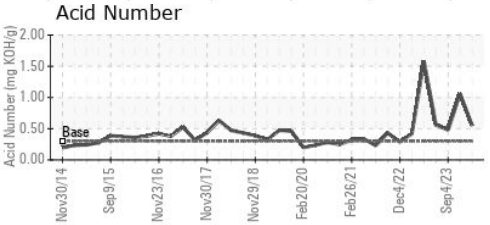
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0894916 **Received** : 31 May 2024
Lab Number : 06196639 **Tested** : 03 Jun 2024
Unique Number : 11058762 **Diagnosed** : 03 Jun 2024 - Don Baldridge
Test Package : IND 2 (Additional Tests: PrtCount)

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)

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

Report Id: HORAUS [WUSCAR] 06196639 (Generated: 06/03/2024 14:53:02) Rev: 1

Contact/Location: RYAN LOWE - HORAUS