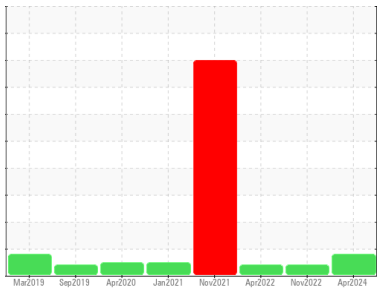
OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
MIXER 1 EAST (S/N 10037014E)
Component
Gearbox
Fluid
PETRO CANADA PURITY FG EP GEAR FLUID 460 (--- GAL)

DIAGNOSIS

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

Wear
Gear wear is indicated. All other component wear rates are normal.

Contamination
There is no indication of any contamination 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		**WC0737279**	WC0569482	WC0625161
Sample Date		Client Info		**03 Apr 2024**	09 Nov 2022	28 Apr 2022
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**	ATTENTION	ATTENTION

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

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**78**	7	16
Iron	ppm	ASTM D5185m	>200	▲ **271**	8	5
Chromium	ppm	ASTM D5185m	>15	**1**	0	0
Nickel	ppm	ASTM D5185m	>15	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**2**	<1	0
Silver	ppm	ASTM D5185m		**<1**	<1	0
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	0
Lead	ppm	ASTM D5185m	>100	**<1**	0	<1
Copper	ppm	ASTM D5185m	>200	**1**	<1	<1
Tin	ppm	ASTM D5185m	>25	**<1**	<1	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

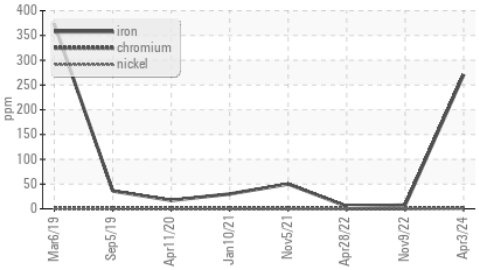
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	2
Barium	ppm	ASTM D5185m		**8**	<1	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**2**	<1	0
Magnesium	ppm	ASTM D5185m		**2**	1	0
Calcium	ppm	ASTM D5185m		**14**	2	0
Phosphorus	ppm	ASTM D5185m	135	**162**	312	490
Zinc	ppm	ASTM D5185m		**6**	1	0
Sulfur	ppm	ASTM D5185m	660	**1206**	1525	662

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**13**	10	2
Sodium	ppm	ASTM D5185m		**5**	<1	0
Potassium	ppm	ASTM D5185m	>20	**4**	5	<1

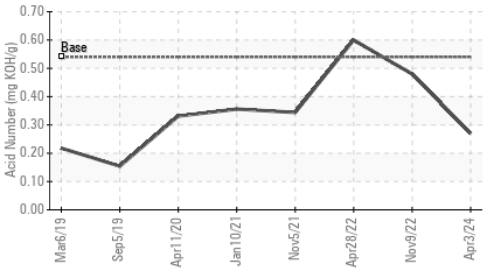
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.54	**0.27**	0.48	0.60

OIL ANALYSIS REPORT

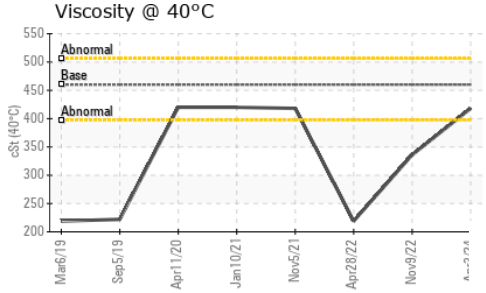
Ferrous Alloys



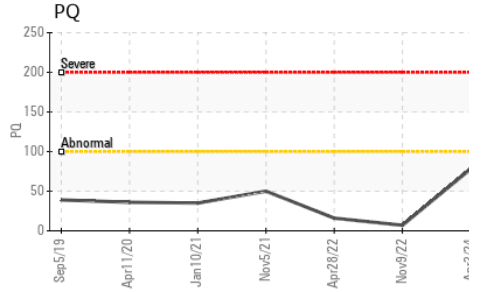
Acid Number



Viscosity @ 40°C

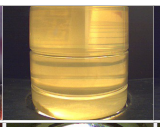
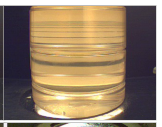
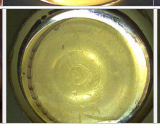
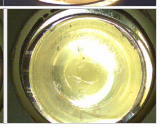


PQ



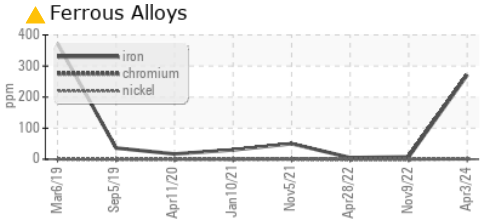
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	VLITE	NONE
Sand/Dirt	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**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	**418**	336	219

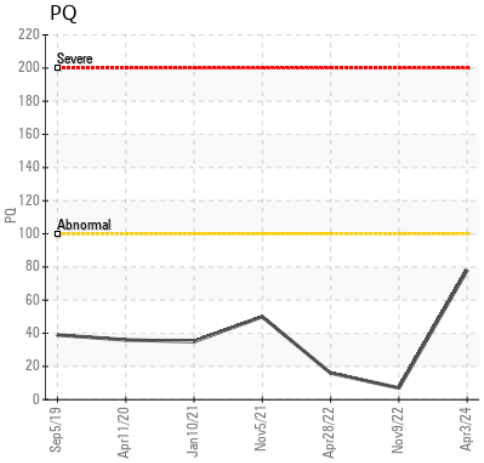
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

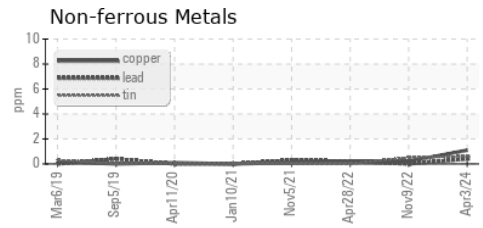
Ferrous Alloys



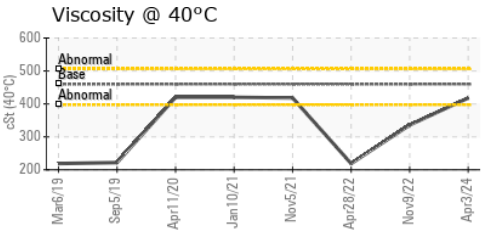
PQ



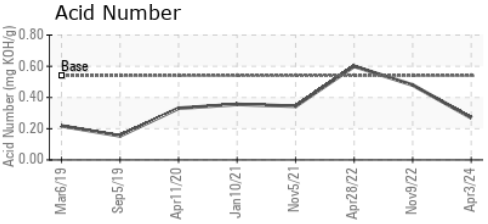
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0737279
Lab Number : 06183412
Unique Number : 11034738
Test Package : IND 2 (Additional Tests: PQ)

Received : 17 May 2024
Tested : 20 May 2024
Diagnosed : 21 May 2024 - Don Baldridge

WORTHINGTON FOODS INC
1675 FAIRVIEW ROAD
ZANESVILLE, OH
US 43701-5168
Contact: Service Manager

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)

T:
F: