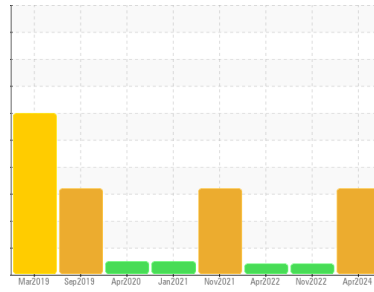




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id

MIXER 1 WEST (S/N 10037014W)

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

Appearance is milky. There is a light concentration of water 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		WC0773912	WC0572052	WC0518567
Sample Date	Client Info		03 Apr 2024	09 Nov 2022	28 Apr 2022
Machine Age	mths	Client Info	5	5	5
Oil Age	mths	Client Info	5	5	5
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ATTENTION	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		136	7	22
Iron	ppm	ASTM D5185m >200	▲ 223	2	6
Chromium	ppm	ASTM D5185m >15	1	0	0
Nickel	ppm	ASTM D5185m >15	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m	<1	0	0
Aluminum	ppm	ASTM D5185m >25	2	<1	<1
Lead	ppm	ASTM D5185m >100	<1	0	<1
Copper	ppm	ASTM D5185m >200	1	0	<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	1
Barium	ppm	ASTM D5185m	6	0	0
Molybdenum	ppm	ASTM D5185m	<1	0	0
Manganese	ppm	ASTM D5185m	2	0	0
Magnesium	ppm	ASTM D5185m	2	<1	0
Calcium	ppm	ASTM D5185m	13	<1	0
Phosphorus	ppm	ASTM D5185m 135	92	214	490
Zinc	ppm	ASTM D5185m	4	0	0
Sulfur	ppm	ASTM D5185m 660	830	814	642

CONTAMINANTS

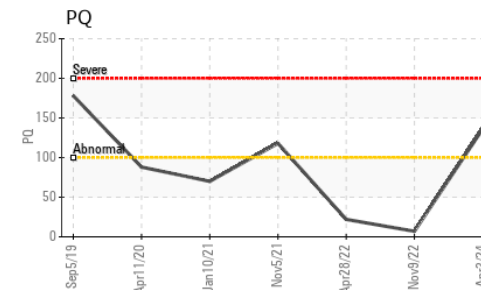
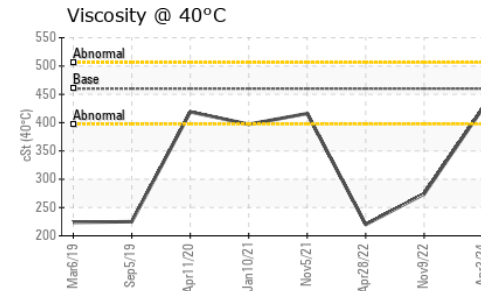
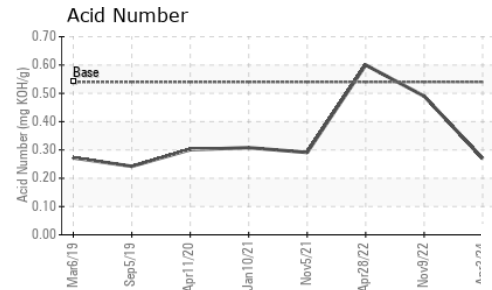
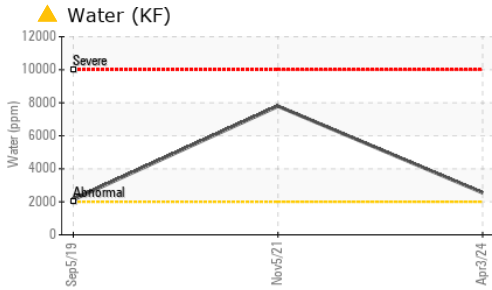
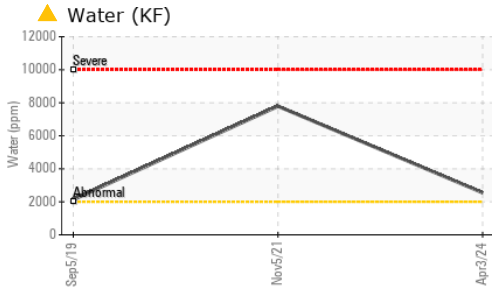
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	10	5	2
Sodium	ppm	ASTM D5185m	8	<1	0
Potassium	ppm	ASTM D5185m >20	6	<1	<1
Water	%	ASTM D6304 >0.2	▲ 0.255	---	---
ppm Water	ppm	ASTM D6304 >2000	▲ 2550	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.54	0.27	0.49	0.60



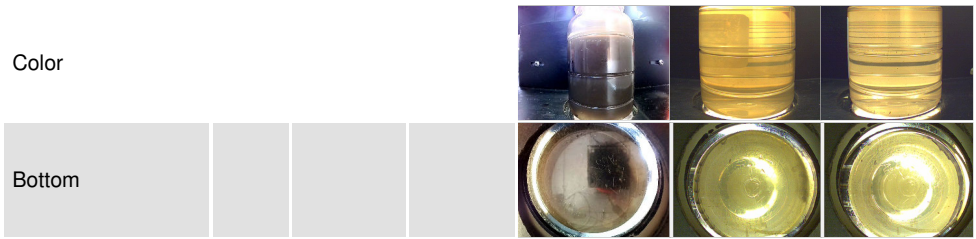
OIL ANALYSIS REPORT



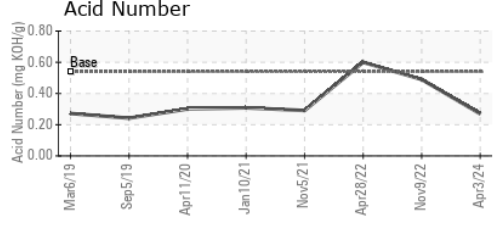
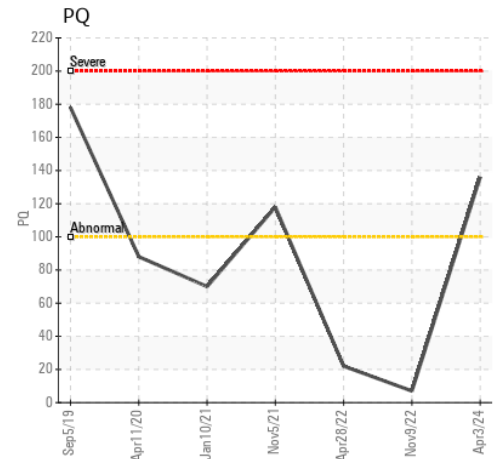
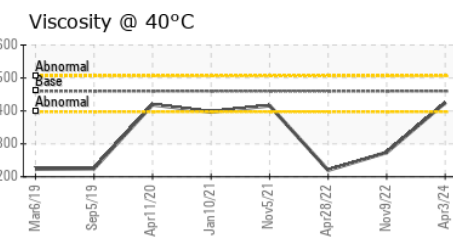
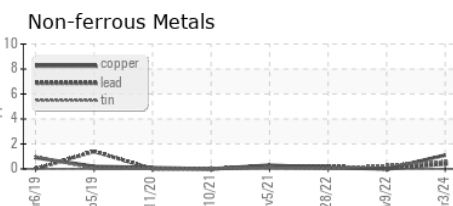
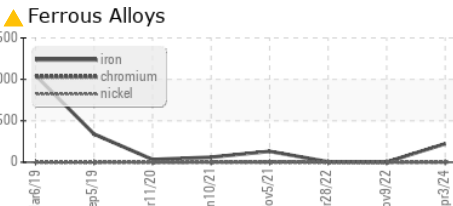
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 460	425	274	220

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. : WC0773912 **Received** : 17 May 2024
Lab Number : 06183415 **Tested** : 21 May 2024
Unique Number : 11034741 **Diagnosed** : 21 May 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, PQ)

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: