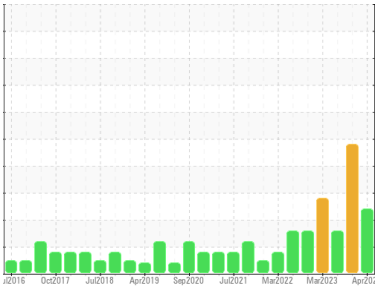
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
FP-106 [10024086368]
Machine Id
B23337-1 - AUGER 6 (SE) BIN RAW MATERIAL
Component
Gearbox
Fluid
PETRO CANADA ENDURATEX SYNTHETIC EP 320 (--- QTS)

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, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

Wear
All component wear rates are normal.

Contamination
Appearance is milky. There is a moderate concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0907918**	WC0872449	WC0820573
Sample Date		Client Info		**01 Apr 2024**	21 Dec 2023	01 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				**ABNORMAL**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**81**	50	25
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	0
Nickel	ppm	ASTM D5185m	>15	**<1**	<1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	2	1
Lead	ppm	ASTM D5185m	>100	**<1**	<1	0
Copper	ppm	ASTM D5185m	>200	**1**	<1	<1
Tin	ppm	ASTM D5185m	>25	**1**	<1	<1
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	33	**22**	14	12
Barium	ppm	ASTM D5185m	5	**0**	7	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	0
Manganese	ppm	ASTM D5185m		**1**	<1	<1
Magnesium	ppm	ASTM D5185m	5	**2**	2	0
Calcium	ppm	ASTM D5185m	5	**10**	8	1
Phosphorus	ppm	ASTM D5185m	437	**456**	367	453
Zinc	ppm	ASTM D5185m	5	**24**	18	<1
Sulfur	ppm	ASTM D5185m	5000	**6168**	6019	7377

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	1	0
Sodium	ppm	ASTM D5185m		**8**	8	<1
Potassium	ppm	ASTM D5185m	>20	**11**	14	3
Water	%	ASTM D6304	>0.2	▲ **0.649**	▲ 1.79	---
ppm Water	ppm	ASTM D6304	>2000	▲ **6490**	▲ 17900	---

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**---**	---	▲ 86590
Particles >6µm		ASTM D7647	>5000	**---**	---	▲ 17562
Particles >14µm		ASTM D7647	>640	**---**	---	● 828
Particles >21µm		ASTM D7647	>160	**---**	---	221
Particles >38µm		ASTM D7647	>40	**---**	---	10
Particles >71µm		ASTM D7647	>10	**---**	---	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**---**	---	▲ 24/21/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	**1.00**	1.28	0.77

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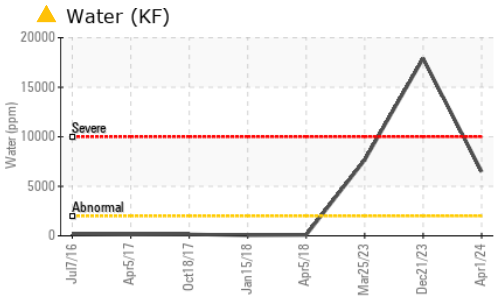
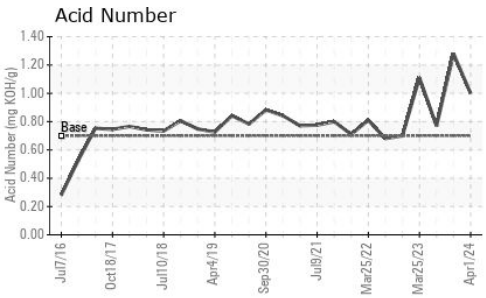
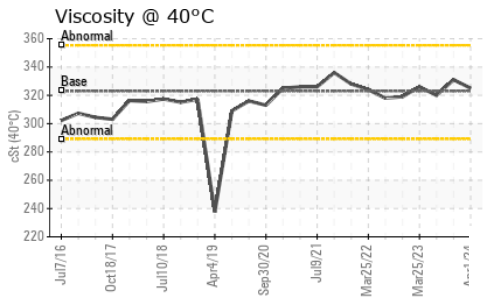




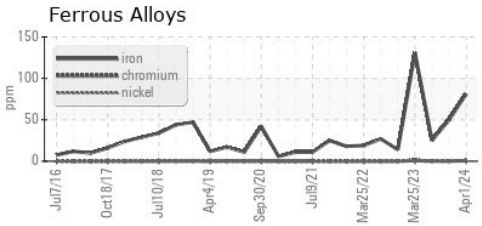


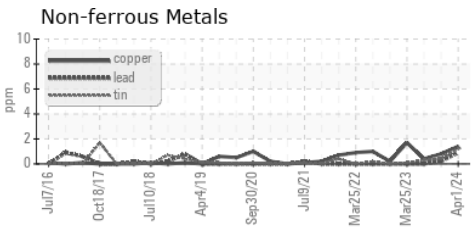
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	▲ HEAVY	LIGHT
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	● **MILKY**	● HAZY	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

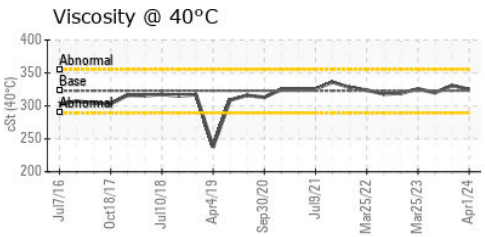
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	323	**325**	331	320

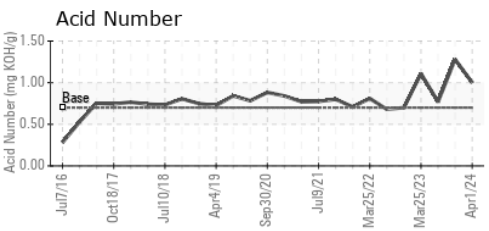
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0907918 **Received** : 02 Apr 2024
Lab Number : 06136345 **Tested** : 04 Apr 2024
Unique Number : 10955810 **Diagnosed** : 04 Apr 2024 - Don Baldridge
Test Package : IND 2 (Additional Tests: KF, 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)

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