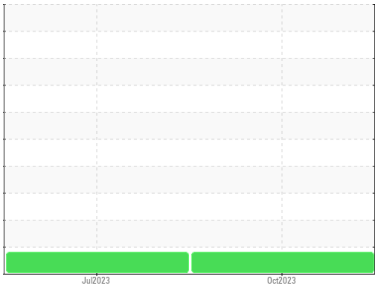
OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY

Machine Id
MIXER 5 WEST
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
All component wear rates are normal.

Contamination
Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0851713**	WC0673385	---
Sample Date		Client Info		**12 Oct 2023**	10 Jul 2023	---
Machine Age	mths	Client Info		**0**	0	---
Oil Age	mths	Client Info		**0**	0	---
Oil Changed		Client Info		**N/A**	N/A	---
Sample Status				**ABNORMAL**	ABNORMAL	---

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

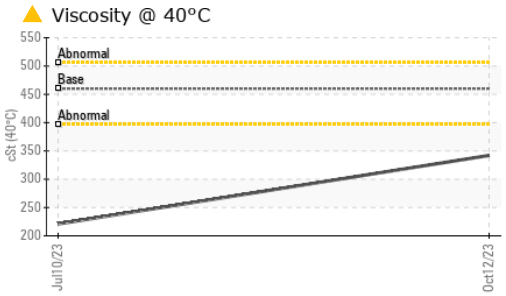
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**36**	32	---
Iron	ppm	ASTM D5185m	>200	**39**	57	---
Chromium	ppm	ASTM D5185m	>15	**0**	<1	---
Nickel	ppm	ASTM D5185m	>15	**0**	0	---
Titanium	ppm	ASTM D5185m		**0**	<1	---
Silver	ppm	ASTM D5185m		**0**	0	---
Aluminum	ppm	ASTM D5185m	>25	**0**	<1	---
Lead	ppm	ASTM D5185m	>100	**0**	0	---
Copper	ppm	ASTM D5185m	>200	**0**	0	---
Tin	ppm	ASTM D5185m	>25	**0**	0	---
Vanadium	ppm	ASTM D5185m		**0**	0	---
Cadmium	ppm	ASTM D5185m		**0**	0	---

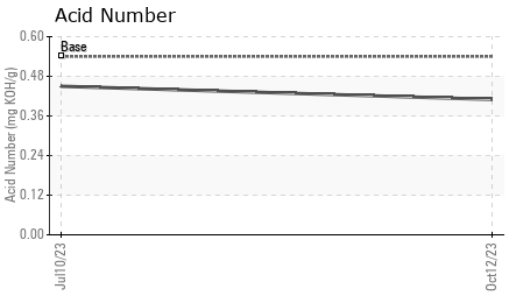
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	---
Barium	ppm	ASTM D5185m		**2**	3	---
Molybdenum	ppm	ASTM D5185m		**0**	0	---
Manganese	ppm	ASTM D5185m		**0**	1	---
Magnesium	ppm	ASTM D5185m		**0**	4	---
Calcium	ppm	ASTM D5185m		**0**	<1	---
Phosphorus	ppm	ASTM D5185m	135	**198**	491	---
Zinc	ppm	ASTM D5185m		**9**	8	---
Sulfur	ppm	ASTM D5185m	660	**639**	704	---

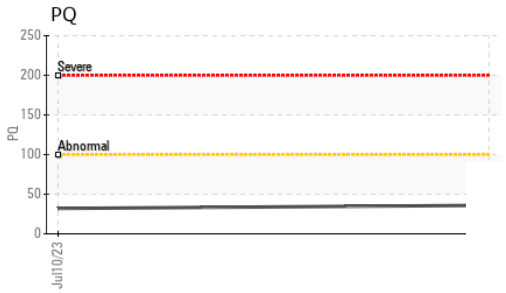
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**2**	2	---
Sodium	ppm	ASTM D5185m		**6**	9	---
Potassium	ppm	ASTM D5185m	>20	**<1**	<1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.54	**0.41**	0.45	---

OIL ANALYSIS REPORT





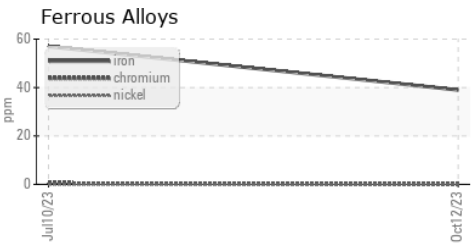


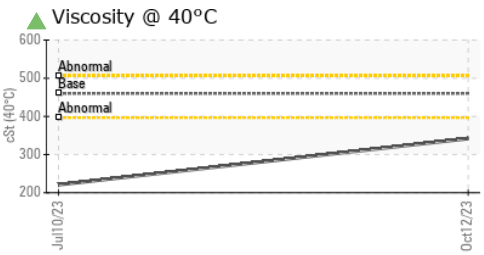
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	LIGHT	---
Debris	scalar	*Visual	NONE	▲ **MODER**	▲ MODER	---
Sand/Dirt	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	---

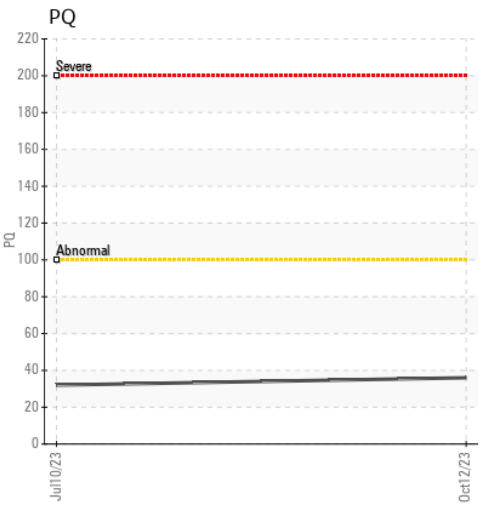
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	▲ **342**	▲ 221	---

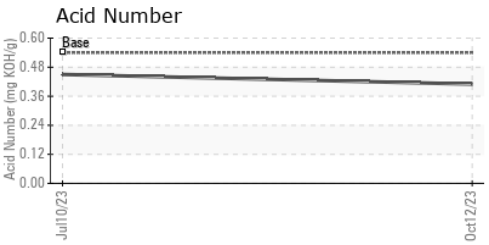
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS









Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0851713 **Recieved** : 11 Jan 2024
Lab Number : 06058276 **Diagnosed** : 14 Jan 2024
Unique Number : 10829658 **Diagnostician** : Don Baldridge
Test Package : IND 2 (Additional Tests: PQ)

Certificate L2367

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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US 43701-5168
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T:
F:

Report Id: WORZAN [WUSCAR] 06058276 (Generated: 01/14/2024 13:14:00) Rev: 1

Submitted By: Cecil Richards