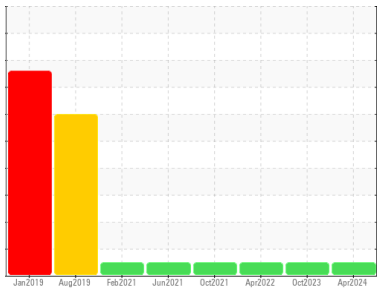
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[68978]
Machine Id
OHT101
Component
Front Transmission (Manual)
Fluid
PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid)

Wear
All component wear rates are normal.

Contamination
There is no indication of any contamination in the fluid.

Fluid Condition
The condition of the fluid is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0109335**	PCA0084714	PCA0062495
Sample Date		Client Info		**04 Apr 2024**	19 Oct 2023	05 Apr 2022
Machine Age	hrs	Client Info		**17749**	17273	16935
Oil Age	hrs	Client Info		**17749**	17273	16717
Oil Changed		Client Info		**N/A**	Changed	Changed
Sample Status				**NORMAL**	NORMAL	NORMAL

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.1	**NEG**	NEG	NEG

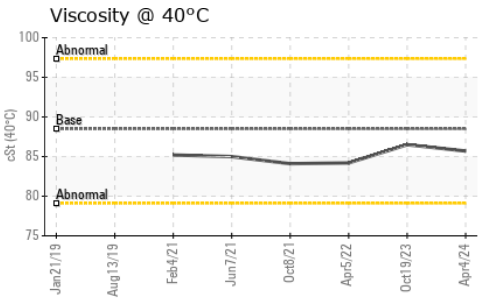
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	**26**	21	11
Chromium	ppm	ASTM D5185m	>5	**0**	<1	0
Nickel	ppm	ASTM D5185m	>5	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m	>7	**0**	0	<1
Aluminum	ppm	ASTM D5185m	>25	**2**	<1	0
Lead	ppm	ASTM D5185m	>45	**2**	<1	4
Copper	ppm	ASTM D5185m	>225	**121**	117	99
Tin	ppm	ASTM D5185m	>10	**0**	1	2
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	**<1**	4	7
Barium	ppm	ASTM D5185m	0	**0**	19	0
Molybdenum	ppm	ASTM D5185m	0	**1**	2	6
Manganese	ppm	ASTM D5185m	9	**0**	<1	<1
Magnesium	ppm	ASTM D5185m	1	**17**	32	81
Calcium	ppm	ASTM D5185m	3131	**2363**	2641	2412
Phosphorus	ppm	ASTM D5185m	1194	**830**	963	965
Zinc	ppm	ASTM D5185m	1281	**900**	1161	979
Sulfur	ppm	ASTM D5185m	3811	**3517**	5539	3014

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	**10**	13	5
Sodium	ppm	ASTM D5185m		**3**	3	0
Potassium	ppm	ASTM D5185m	>20	**0**	3	0

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**	NONE	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	>0.1	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

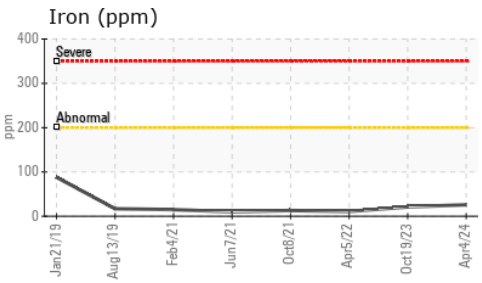
OIL ANALYSIS REPORT

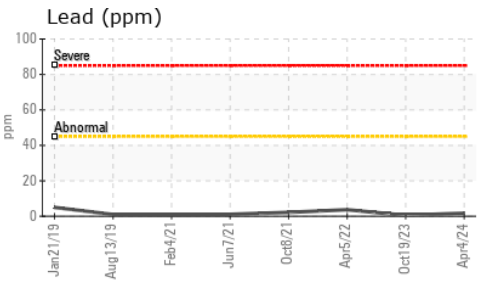


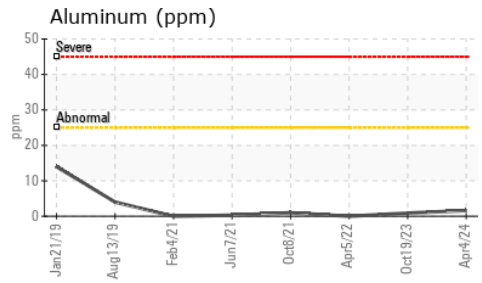
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	88.5	**85.7**	86.5	84.2

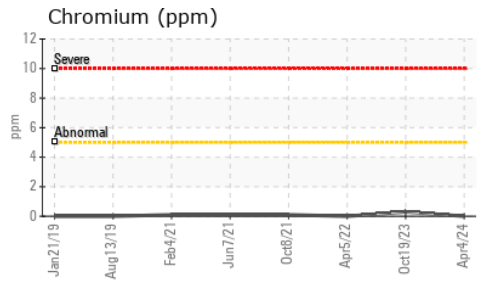
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

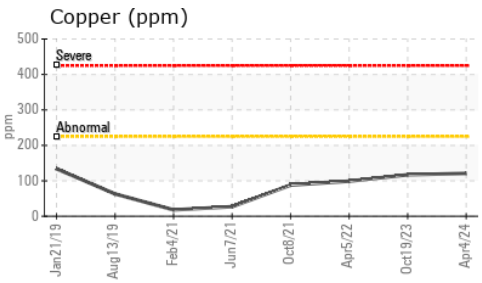
GRAPHS

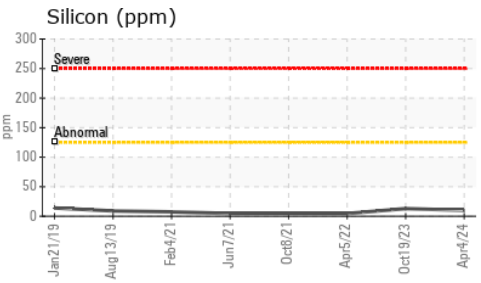


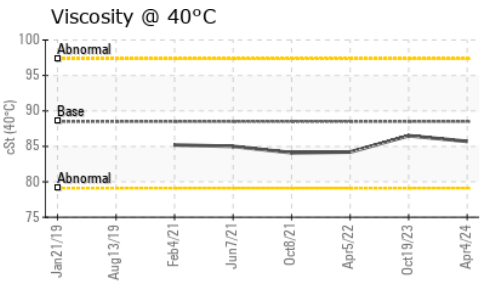


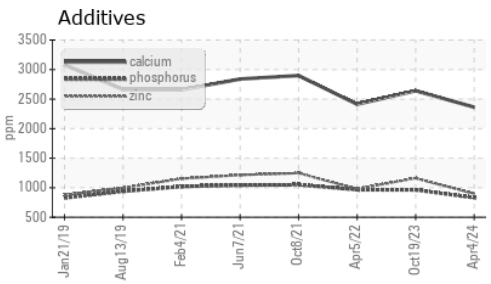












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109335
Lab Number : 06149186
Unique Number : 10979264
Test Package : MOB 1

Received : 15 Apr 2024
Tested : 16 Apr 2024
Diagnosed : 17 Apr 2024 - Sean Felton

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)

Kemp Quarries - Muskogee Sand
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Porter, OK
US 74454
Contact:
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T:
F:

Report Id: KEMPOR [WUSCAR] 06149186 (Generated: 04/17/2024 15:40:47) Rev: 1

Submitted By: