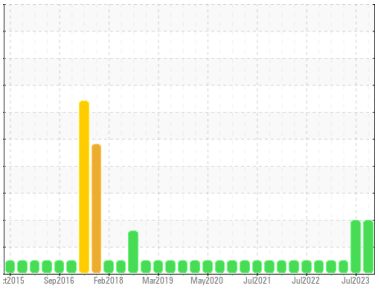
OIL ANALYSIS REPORT

Area
KEMP QUARRIES / PRYOR STONE [66569]
Machine Id
OHT085
Component
Rear Right Final Drive
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

Sample Rating Trend



VISCOSITY

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. (Customer Sample Comment: Pm4 performed. All oil samples taken. All oils, and all filters changed.)

Wear
All component wear rates are normal.

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

Fluid Condition
The oil viscosity is lower than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0084312**	PCA0084598	PCA0083978
Sample Date		Client Info		**03 Nov 2023**	24 Jul 2023	03 May 2023
Machine Age	hrs	Client Info		**14433**	13895	13443
Oil Age	hrs	Client Info		**2162**	13895	1172
Oil Changed		Client Info		**Changed**	N/A	Oil Added
Sample Status				**ATTENTION**	ATTENTION	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	**20**	29	21
Chromium	ppm	ASTM D5185m	>10	**0**	0	<1
Nickel	ppm	ASTM D5185m	>5	**0**	<1	<1
Titanium	ppm	ASTM D5185m	>15	**0**	<1	<1
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>75	**0**	0	3
Lead	ppm	ASTM D5185m	>10	**0**	0	<1
Copper	ppm	ASTM D5185m	>75	**<1**	1	1
Tin	ppm	ASTM D5185m	>8	**0**	0	1
Vanadium	ppm	ASTM D5185m		**0**	<1	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	**0**	0	0
Barium	ppm	ASTM D5185m	0	**0**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	<1	<1
Manganese	ppm	ASTM D5185m	0	**0**	<1	<1
Magnesium	ppm	ASTM D5185m	9	**<1**	0	14
Calcium	ppm	ASTM D5185m	3114	▲ **371**	▲ 1464	2959
Phosphorus	ppm	ASTM D5185m	1099	▲ **415**	▲ 603	952
Zinc	ppm	ASTM D5185m	1245	▲ **507**	▲ 748	1192
Sulfur	ppm	ASTM D5185m	7086	▲ **1179**	▲ 2421	4509

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>400	**6**	17	23
Sodium	ppm	ASTM D5185m		**<1**	<1	2
Potassium	ppm	ASTM D5185m	>20	**0**	0	1

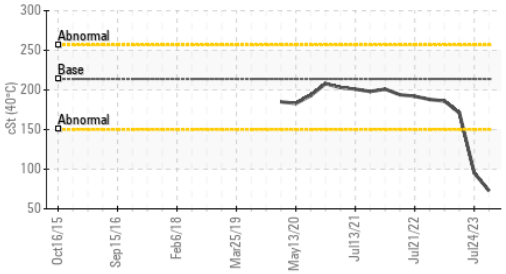
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	213.9	▲ **72.7**	▲ 95.3	171

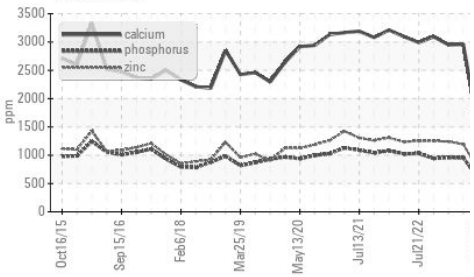
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Viscosity @ 40°C



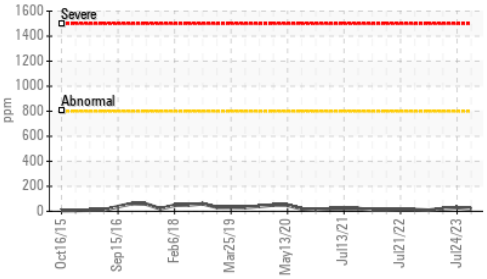
Additives



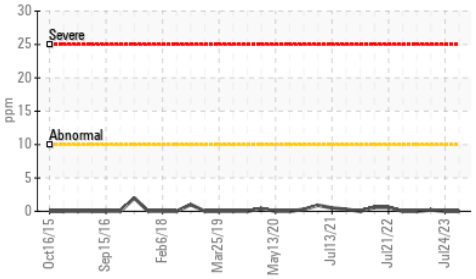
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

GRAPHS

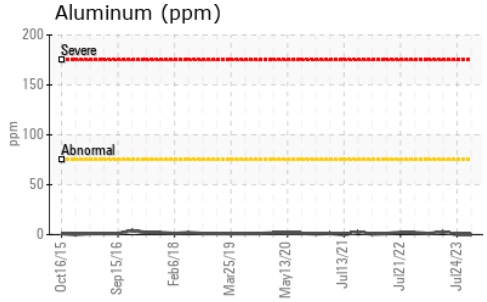
Iron (ppm)



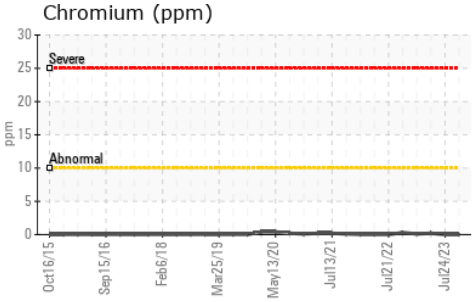
Lead (ppm)



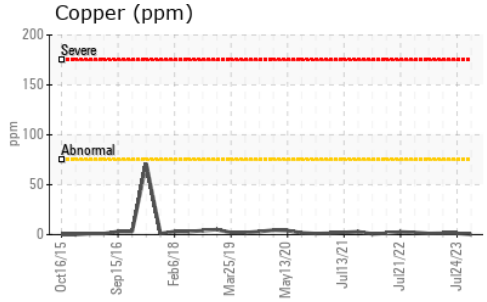
Aluminum (ppm)



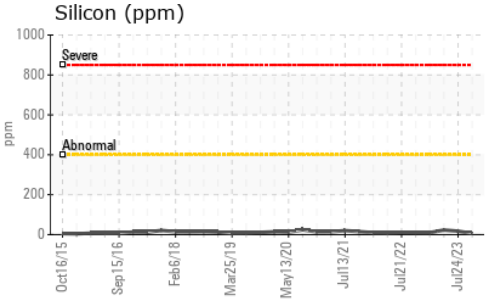
Chromium (ppm)



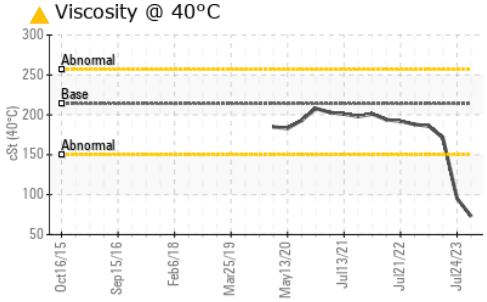
Copper (ppm)



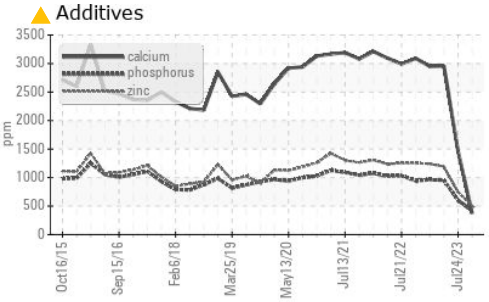
Silicon (ppm)



Viscosity @ 40°C



Additives



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: PCA0084312	**Received**	: 13 Nov 2023
Lab Number	: 06006594	**Diagnosed**	: 15 Nov 2023
Unique Number	: 10740356	**Diagnostician**	: Don Baldridge
Test Package	: MOB 1		

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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Report Id: KEMPRY [WUSCAR] 06006594 (Generated: 11/16/2023 06:44:34) Rev: 1

Submitted By: