



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
KEMP QUARRIES / KEMP STONE - FAIRLAND [68773]
Machine Id
OHT042
Component
Rear Differential
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. (Customer Sample Comment: PM-4 changed fluid)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0108699	PCA0037557	PCA0025435
Sample Date		Client Info		15 May 2024	21 Apr 2022	24 Jan 2022
Machine Age	hrs	Client Info		26970	26463	25066
Oil Age	hrs	Client Info		26970	26463	25066
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	82	147	148
Chromium	ppm	ASTM D5185m	>3	<1	3	3
Nickel	ppm	ASTM D5185m	>3	<1	1	0
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	<1	0	<1
Aluminum	ppm	ASTM D5185m	>30	3	7	9
Lead	ppm	ASTM D5185m	>13	<1	6	2
Copper	ppm	ASTM D5185m	>103	27	84	71
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

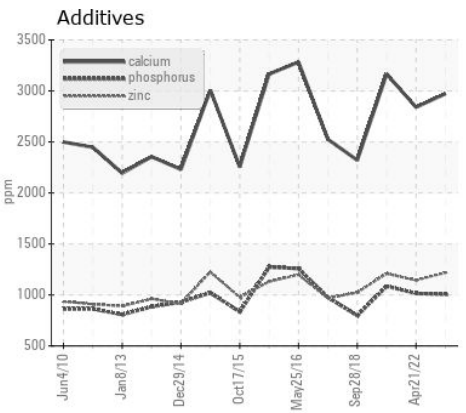
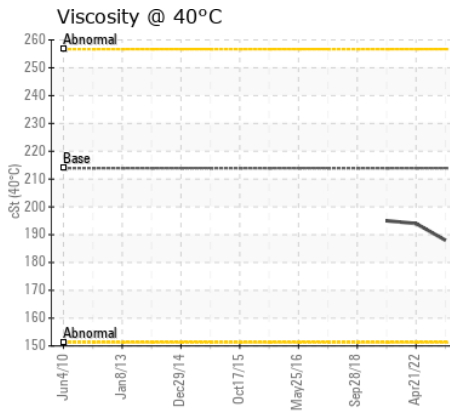
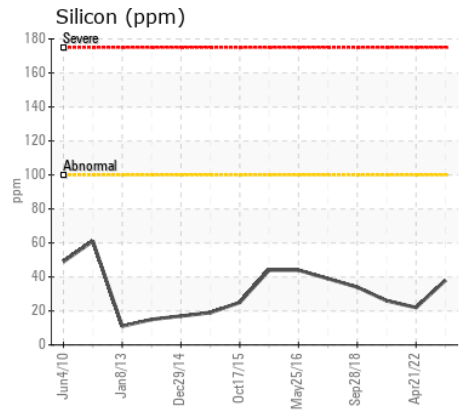
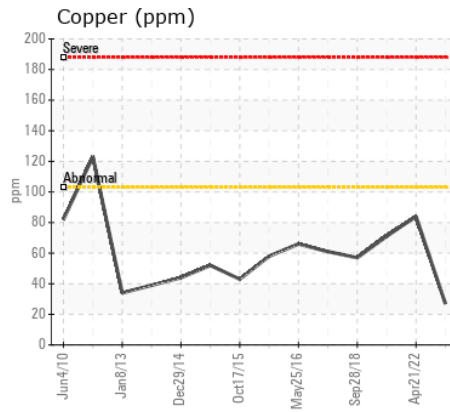
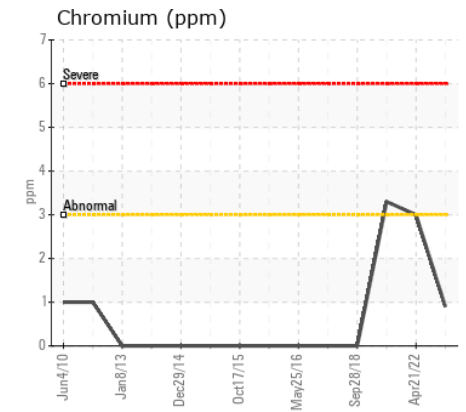
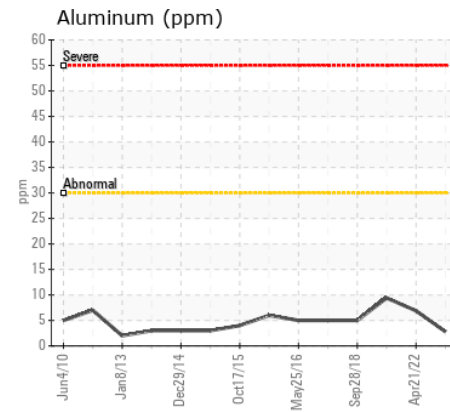
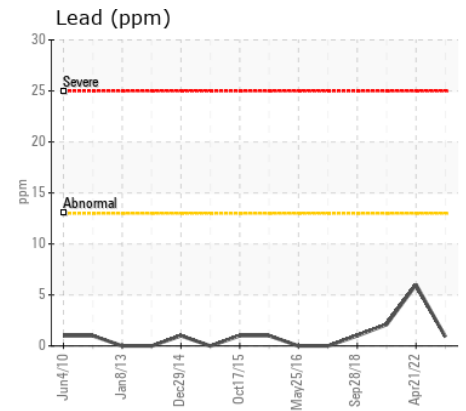
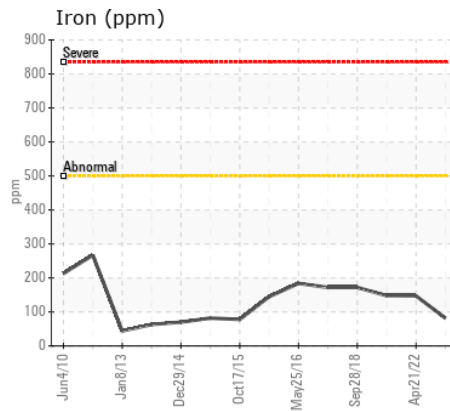
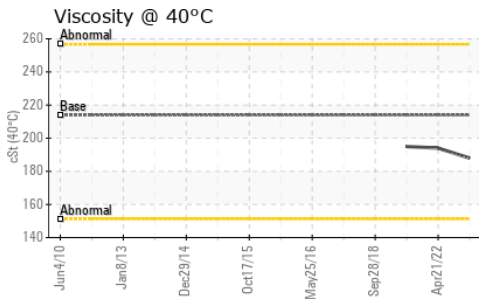
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>100	38	22	26
Potassium	ppm	ASTM D5185m	>20	4	6	10
Water		WC Method	>.2	NEG	NEG	NEG
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	>.2	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	8	4
Boron	ppm	ASTM D5185m	2	2	6	5
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	2	2
Manganese	ppm	ASTM D5185m	0	1	3	2
Magnesium	ppm	ASTM D5185m	9	29	24	18
Calcium	ppm	ASTM D5185m	3114	2973	2840	3166
Phosphorus	ppm	ASTM D5185m	1099	1005	1015	1085
Zinc	ppm	ASTM D5185m	1245	1218	1144	1209
Sulfur	ppm	ASTM D5185m	7086	6790	7481	8363
Visc @ 40°C	cSt	ASTM D445	213.9	188	194	195



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0108699
 Lab Number : 06189822
 Unique Number : 11046574
 Test Package : MOB 1

Received : 23 May 2024
 Tested : 30 May 2024
 Diagnosed : 30 May 2024 - Angela Borella

Kemp Quarries - Kemp Stone - Fairland
 18350 S 590 Rd
 Fairland, OK
 US 74343
 Contact:

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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