



WEAR

ABNORMAL

CONTAMINATION

NORMAL

FLUID CONDITION

NORMAL



Area
KEMP QUARRIES / KEMP STONE - FAIRLAND [62593]
Machine Id
OHT100
Component
Rear Left Final Drive
Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION

We suspect abnormal metal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid . Overfilled)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0086495	PCA0070252	PCA0061927
Sample Date		Client Info		07 Feb 2024	01 Nov 2022	25 May 2022
Machine Age	hrs	Client Info		6938	6511	6073
Oil Age	hrs	Client Info		6938	6511	6073
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

High concentration of visible metal present. All component wear rates are normal.

Iron	ppm	ASTM D5185m	>800	36	60	54
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m	>15	<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>75	<1	1	1
Lead	ppm	ASTM D5185m	>10	2	4	4
Copper	ppm	ASTM D5185m	>75	8	14	17
Tin	ppm	ASTM D5185m	>8	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	▲ HEAVY	▲ MODER	NONE

CONTAMINATION

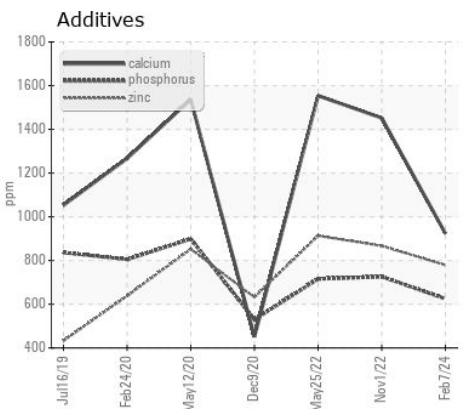
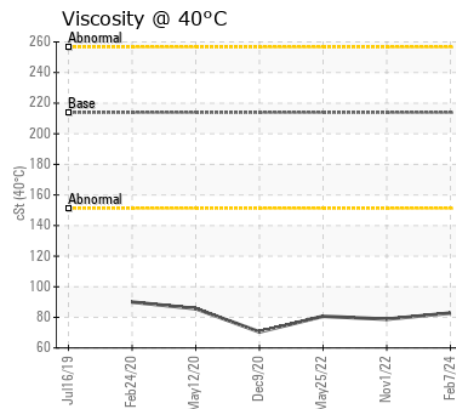
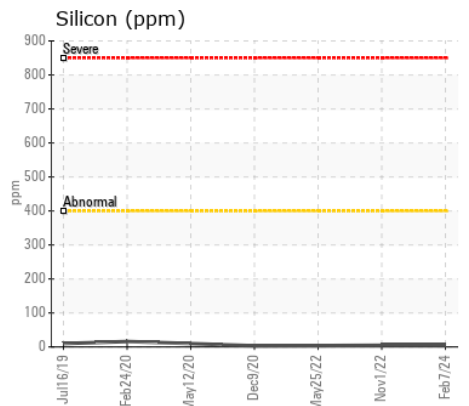
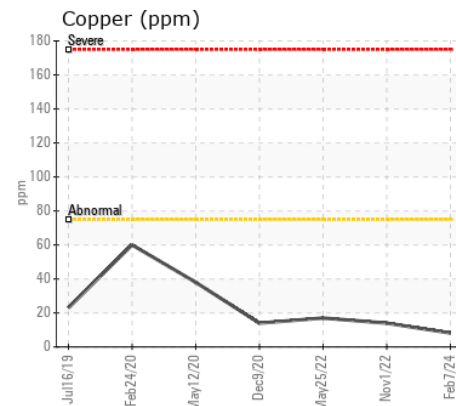
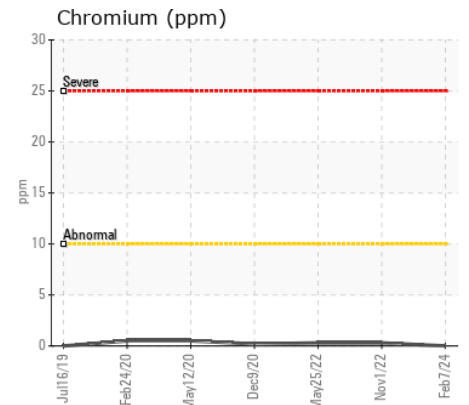
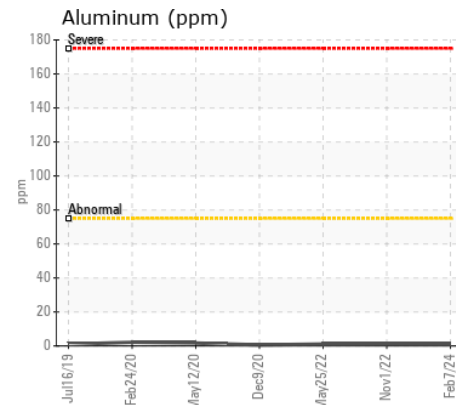
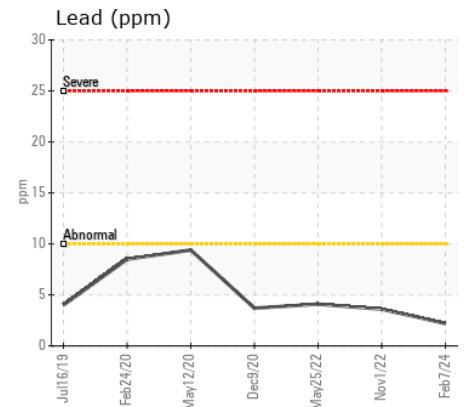
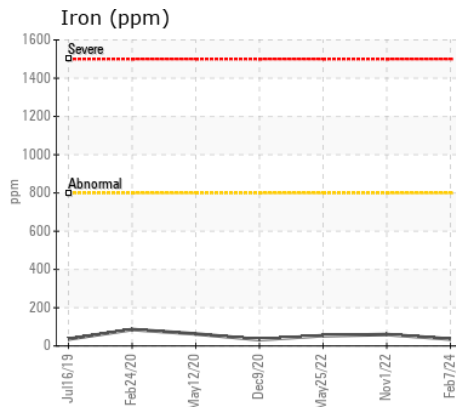
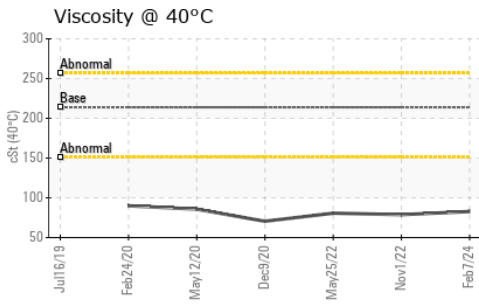
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>400	5	5	4
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	1	2
Boron	ppm	ASTM D5185m	2	<1	2	4
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	8	13	12
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	9	140	180	173
Calcium	ppm	ASTM D5185m	3114	924	1452	1554
Phosphorus	ppm	ASTM D5185m	1099	625	726	716
Zinc	ppm	ASTM D5185m	1245	779	867	913
Sulfur	ppm	ASTM D5185m	7086	2200	3430	2703
Visc @ 40°C	cSt	ASTM D445	213.9	82.8	▲ 78.8	80.7



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0086495 **Received** : 13 Feb 2024
Lab Number : 06088418 **Tested** : 14 Feb 2024
Unique Number : 10875863 **Diagnosed** : 15 Feb 2024 - Jonathan Hester
Test Package : MOB 1

Kemp Quarries - Kemp Stone - Fairland
 18350 S 590 Rd
 Fairland, OK
 US 74343
 Contact:
 fairland@kempstone.com
 T:
 F:

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)