



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
KEMP QUARRIES / KEMP STONE - FAIRLAND [67744]

Machine Id
OHT123

Component
Rear Left Final Drive

Fluid
PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION

(Customer Sample Comment: PM-1 sampled fluid)

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0070626	PCA0084736	PCA0086310
Sample Date		Client Info		02 Jan 2024	02 Oct 2023	21 Jun 2023
Machine Age	hrs	Client Info		37987	37517	37279
Oil Age	hrs	Client Info		37987	37517	37279
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				NORMAL	NORMAL	ATTENTION

WEAR

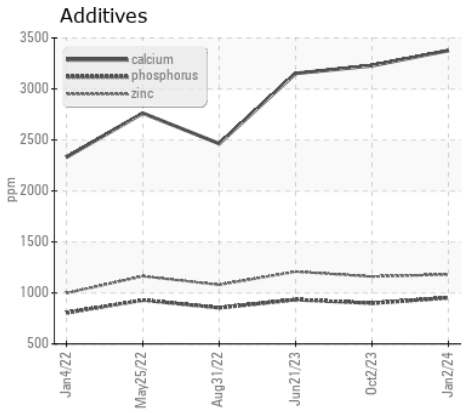
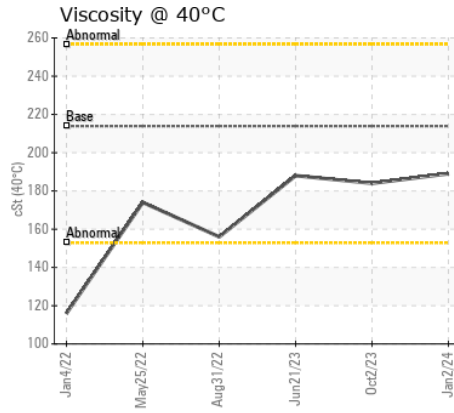
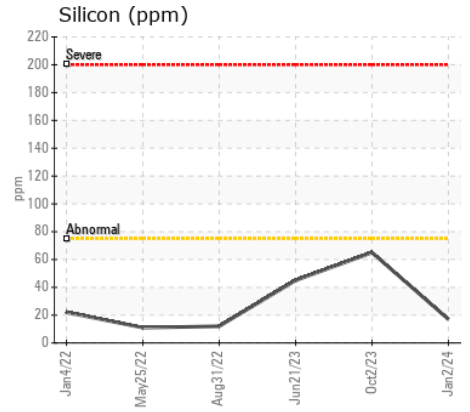
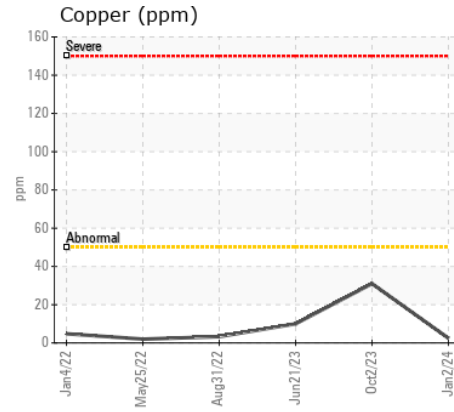
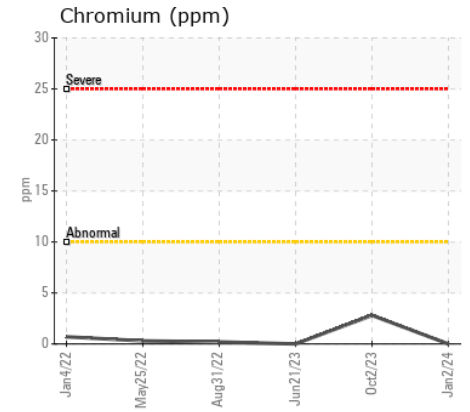
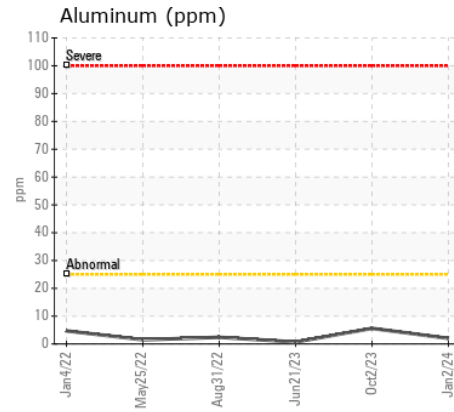
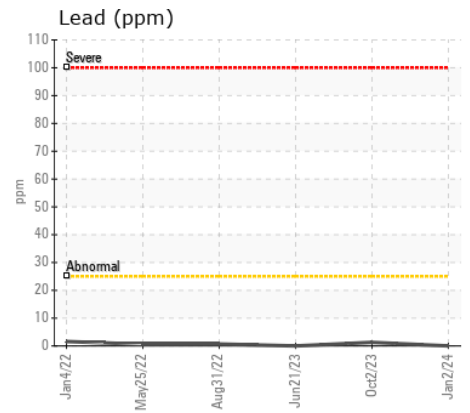
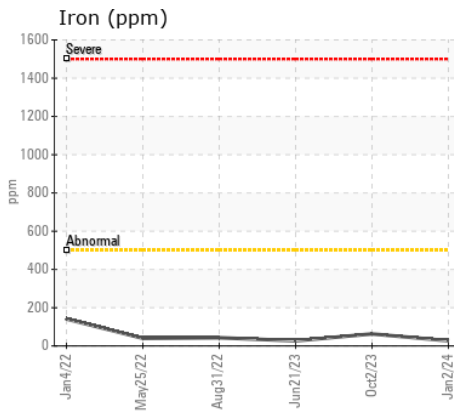
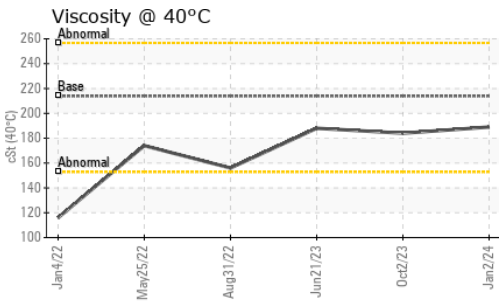
Iron	ppm	ASTM D5185m	>500	27	63	27
Chromium	ppm	ASTM D5185m	>10	0	3	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	1	1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	6	<1
Lead	ppm	ASTM D5185m	>25	0	1	0
Copper	ppm	ASTM D5185m	>50	2	31	10
Tin	ppm	ASTM D5185m	>10	0	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

Silicon	ppm	ASTM D5185m	>75	17	65	45
Potassium	ppm	ASTM D5185m	>20	2	3	<1
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	▲ HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	0.2%

FLUID CONDITION

Sodium	ppm	ASTM D5185m		0	<1	1
Boron	ppm	ASTM D5185m	2	0	2	2
Barium	ppm	ASTM D5185m	0	0	0	15
Molybdenum	ppm	ASTM D5185m	0	<1	2	2
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	9	14	18	32
Calcium	ppm	ASTM D5185m	3114	3377	3228	3152
Phosphorus	ppm	ASTM D5185m	1099	952	899	934
Zinc	ppm	ASTM D5185m	1245	1181	1160	1209
Sulfur	ppm	ASTM D5185m	7086	4489	4688	5149
Visc @ 40°C	cSt	ASTM D445	213.9	189	184	188



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0070626 **Received** : 10 Jan 2024
Lab Number : 06057490 **Diagnosed** : 12 Jan 2024
Unique Number : 10823439 **Diagnostician** : Sean Felton
Test Package : MOB 1

Kemp Quarries - Kemp Stone - Fairland
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 Fairland, OK
 US 74343
 Contact:
 fairland@kempstone.com
 T:
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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)