

# **OIL ANALYSIS REPORT**

### Area KEMP QUARRIES / KEMP STONE - FAIRLAND [33993] OHT123 Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)

## DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: PM-4 changed fluid and filters )

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

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

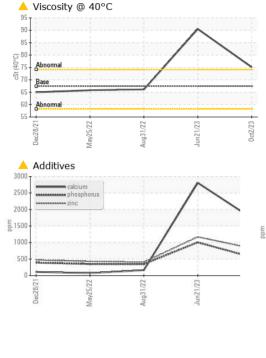
		Dec2021	May2022	Aug2022 Jun2023	0ct2023	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0084734	PCA0086313	PCA0062459
Sample Date		Client Info		02 Oct 2023	21 Jun 2023	31 Aug 2022
Machine Age	hrs	Client Info		37517	37279	36774
Dil Age	hrs	Client Info		37517	37279	36774
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ATTENTION	SEVERE	NORMAL
WEAR METALS	5	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	12	11	12
Chromium	ppm	ASTM D5185m	>10	3	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	2
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>10	2	<1	1
_ead	ppm	ASTM D5185m	>10	0	2	<1
Copper	ppm	ASTM D5185m	>75	8	9357	12
Tin	ppm	ASTM D5185m	>10	0	0	<1
/anadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<1	2	2
Barium	ppm	ASTM D5185m	0	0	14	0
Volybdenum	ppm	ASTM D5185m	0	2	2	<1
Vanganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	0	14	<u> </u>	6
Calcium	ppm	ASTM D5185m	50	<u> </u>	<b>2806</b>	164
Phosphorus	ppm	ASTM D5185m	330	557	<b>1</b> 004	347
Zinc	ppm	ASTM D5185m	430	825	<b>1</b> 170	407
Sulfur	ppm	ASTM D5185m	760	<b>A</b> 2430	<b>4</b> 594	927
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	12	9	2
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	0	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
FLUID PROPER	RTIES	method	limit/base	current	history1	history2
-	cSt	ASTM D445	67.4	<b>A</b> 75.1	▲ 90.5	66.1
11:20) Rev: 1						Submitted B

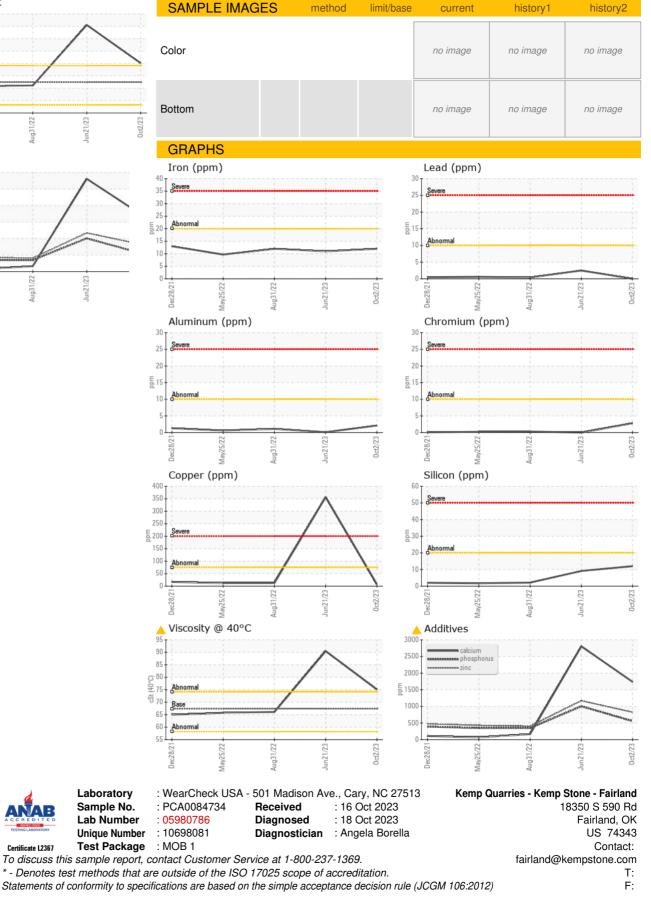
Sample Rating Trend

VISCOSITY



# **OIL ANALYSIS REPORT**





Certificate L2367