

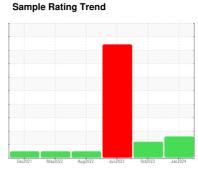
OIL ANALYSIS REPORT

KEMP QUARRIES / KEMP STONE - FAIRLAND [67744] Machine Id OHT123

Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-1 sampled fluid)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

▲ 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 Aug2023	. Jun2023 Oct2023	Jan2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0070630	PCA0084734	PCA0086313
Sample Date		Client Info		02 Jan 2024	02 Oct 2023	21 Jun 2023
Machine Age	hrs	Client Info		37987	37517	37279
Dil Age	hrs	Client Info		37987	37517	37279
Oil Changed		Client Info		N/A	Changed	N/A
Sample Status				ATTENTION	ATTENTION	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>20	7	12	11
Chromium	ppm	ASTM D5185m	>10	<1	3	0
Vickel	ppm	ASTM D5185m	>10	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	1	2	<1
_ead	ppm	ASTM D5185m	>10	1	0	2
Copper	ppm	ASTM D5185m		3	8	357
Tin	ppm	ASTM D5185m	>10	1	0	0
√anadium	ppm	ASTM D5185m	>10	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп		12 24 //			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	1	<1	2
Barium	ppm	ASTM D5185m	0	0	0	14
Molybdenum	ppm	ASTM D5185m	0	1	2	2
-		ASTM D5185m ASTM D5185m		<1		<1
Vanganese	ppm				2	
Manganese Magnesium	ppm	ASTM D5185m	0	<1	2	<1
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	0	<1 1	2 0 14	<1 ^ 28
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 0 50	<1 ▲ 32 ▲ 1844	2 0 14 • 1736	<1 \$\triangle 28\$ \$\triangle 2806\$
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 50 330	<1 ▲ 32 ▲ 1844 752	2 0 14 • 1736 557	<1 ▲ 28 ▲ 2806 ▲ 1004
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 50 330 430	<1 ▲ 32 ▲ 1844 752 871	2 0 14 ▲ 1736 557 825	<1 \$\textstyle 28\$ \$\times 2806\$ \$\times 1004\$ \$\times 1170\$
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 50 330 430 760	<1 ▲ 32 ▲ 1844 752 871 ▲ 2603	2 0 14 ▲ 1736 557 825 ▲ 2430	<1 ▲ 28 ▲ 2806 ▲ 1004 ▲ 1170 ▲ 4594
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 0 50 330 430 760	<1	2 0 14 ▲ 1736 557 825 ▲ 2430 history1	<1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 0 50 330 430 760 limit/base	<1	2 0 14 ▲ 1736 557 825 ▲ 2430 history1	<1
Manganese Magnesium Calcium Phosphorus Zinc Gulfur CONTAMINAN Silicon Godium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 0 50 330 430 760 limit/base	<1 ▲ 32 ▲ 1844 752 871 ▲ 2603	2 0 14 ▲ 1736 557 825 ▲ 2430 history1 12 0	<1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m MEthod ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 0 50 330 430 760 limit/base >20	<1	2 0 14 ▲ 1736 557 825 ▲ 2430 history1 12 0 1	<1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	0 0 50 330 430 760 limit/base >20 >20	<1	2 0 14 ▲ 1736 557 825 ▲ 2430 history1 12 0 1	<1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m	0 0 50 330 430 760 limit/base >20 limit/base NONE	<1 ▲ 32 ▲ 1844 752 871 ▲ 2603	2 0 14 ▲ 1736 557 825 ▲ 2430 history1 12 0 1 history1 NONE	<1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	ASTM D5185m method *Visual	0 0 50 330 430 760 limit/base >20 limit/base NONE	<1	2 0 14 ▲ 1736 557 825 ▲ 2430 history1 12 0 1 history1 NONE	<1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	0 0 50 330 430 760 limit/base >20 limit/base NONE NONE	<1	2 0 14 ▲ 1736 557 825 ▲ 2430 history1 12 0 1 history1 NONE NONE	<1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	0 0 50 330 430 760 limit/base >20 >20 limit/base NONE NONE NONE	<1	2 0 14 ▲ 1736 557 825 ▲ 2430 history1 12 0 1 history1 NONE NONE NONE	<1

Odor

Emulsified Water

Free Water

scalar *Visual

scalar *Visual

*Visual

scalar

NORML

>0.1

NORML

NEG

NEG

NORML

NEG

NEG

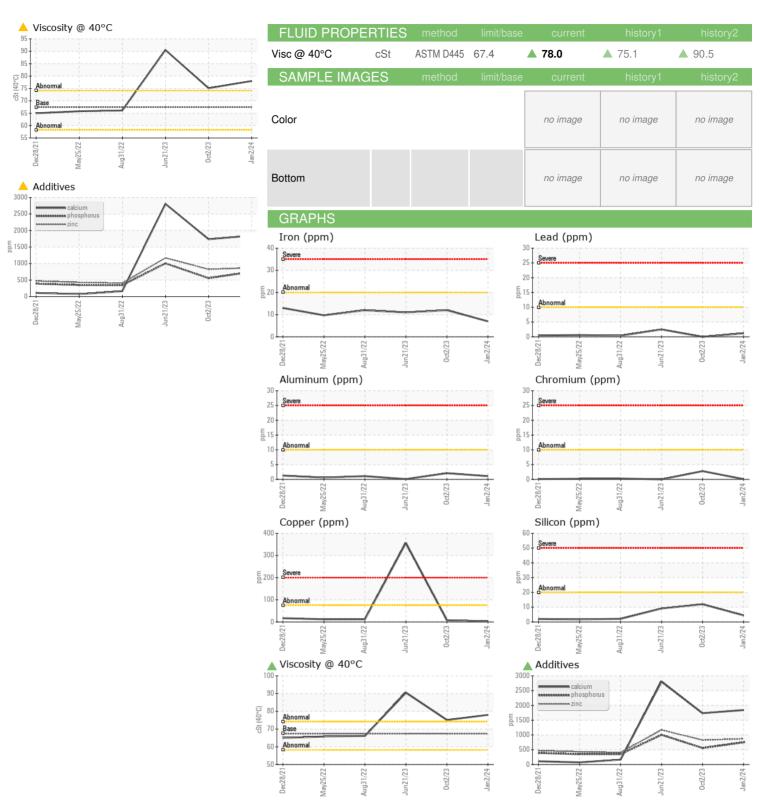
NORML

NEG

NEG



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number Test Package : MOB 1

Unique Number

: 06057546 : 10823495

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0070630 Recieved Diagnosed

: 10 Jan 2024 : 12 Jan 2024 : Don Baldridge Diagnostician

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)