

OIL ANALYSIS REPORT



KEMP QUARRIES / MUSKOGEE SAND [67335] **WL039** Component

Hydraulic System

PETRO CANADA HYDREX AW 68 (--- GAL)

Sample Number

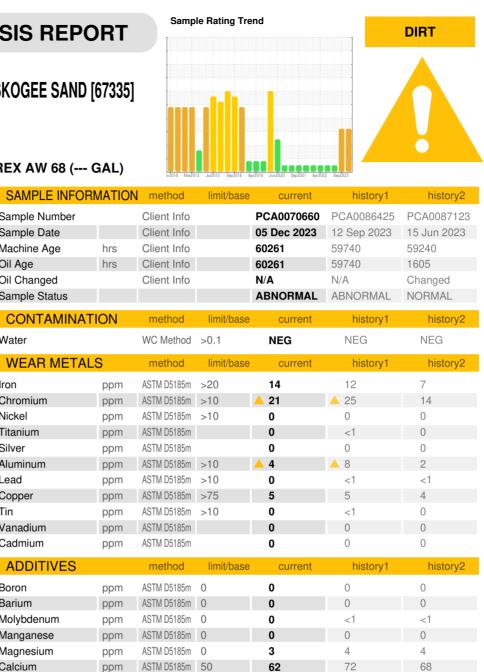
Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age



Water		WC Method	>0.1	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1
Iron	ppm	ASTM D5185m	>20	14	12
Chromium	ppm	ASTM D5185m	>10	<mark>/</mark> 21	<u> </u>
Nickel	ppm	ASTM D5185m	>10	0	0
Titanium	ppm	ASTM D5185m		0	<1
Silver	ppm	ASTM D5185m		0	0
Aluminum	ppm	ASTM D5185m	>10	<u> </u>	<u> </u>
Lead	ppm	ASTM D5185m	>10	0	<1
Copper	ppm	ASTM D5185m	>75	5	5
Tin	ppm	ASTM D5185m	>10	0	<1
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0
ADDITIVES		method	limit/base	current	history1
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1
Manganese	ppm	ASTM D5185m	0	0	0
Magnesium	ppm	ASTM D5185m	0	3	4
Calcium	ppm	ASTM D5185m	50	62	72
Phosphorus	ppm	ASTM D5185m	330	327	343
Zinc	ppm	ASTM D5185m	430	442	462

Sulfur	ppm	ASTM D5185m	760	979	980	909
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<u> </u>	4	12
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	3	2	1

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

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 changed filters)

A Wear

The iron level is abnormal. All other component wear rates are normal.

Contamination

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

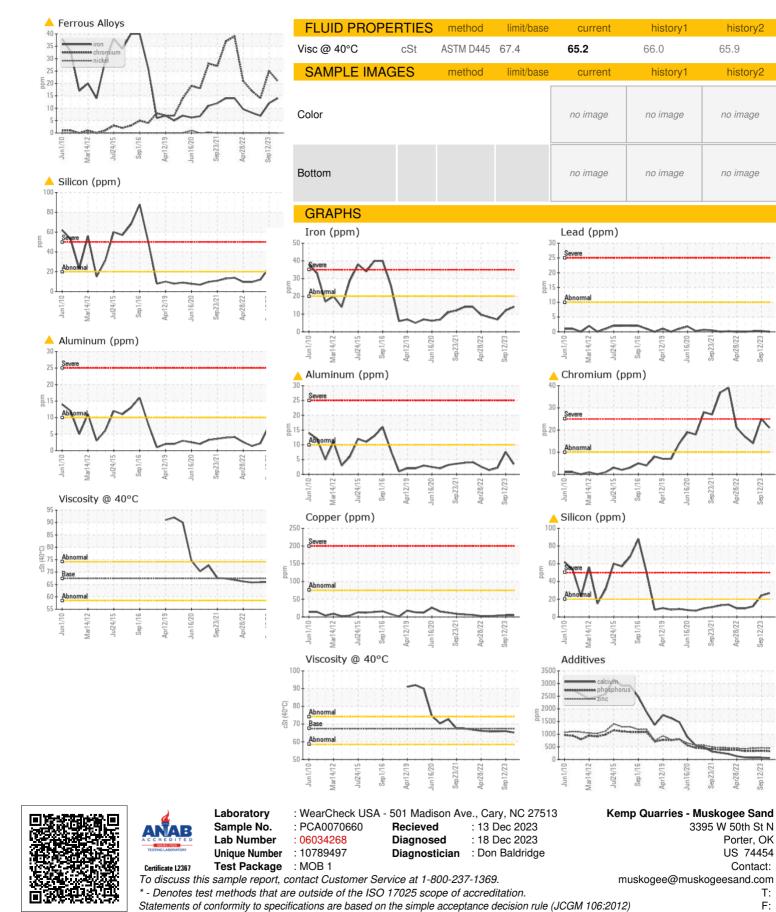
Fluid Condition

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

334 439



OIL ANALYSIS REPORT



Sep12/23

Porter, OK

US 74454

Contact:

T:

F:

0800

history2

history2

no image

no image

28.77

65.9