

OIL ANALYSIS REPORT

Sample Number

Sample Date

Machine Age

Oil Changed

Sample Status

Oil Age

Iron

Nickel

Silver

Lead

Tin

Copper

Antimony

Vanadium

Cadmium

Free Water

scalar *Visual

ppm

ppm

ppm

ASTM D5185m

ASTM D5185m

ASTM D5185m

>5

Titanium

Aluminum

Chromium

KEMP QUARRIES / MUSKOGEE SAND [65023] TTH015 Component

Front Left Final Drive

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

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: PM-2 sampled fluid. Left oil had minor gravish tints. Oil was just changed due to turret repairs.)

A Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.



<1

<1

<1

<1

<1

2

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	5	43
Barium	ppm	ASTM D5185m	0	1	2	0
Molybdenum	ppm	ASTM D5185m	0	0	2	1
Manganese	ppm	ASTM D5185m	0	3	8	4
Magnesium	ppm	ASTM D5185m	9	17	22	19
Calcium	ppm	ASTM D5185m	3114	2419	2506	2131
Phosphorus	ppm	ASTM D5185m	1099	885	766	960
Zinc	ppm	ASTM D5185m	1245	1100	952	1141
Sulfur	ppm	ASTM D5185m	7086	8099	7789	5060
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	187	1236	i 300
Sodium	ppm	ASTM D5185m	>51	4	24	11
Potassium	ppm	ASTM D5185m	>20	9	70	25
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
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	LIGHT
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	>0.075	NEG	▲ 0.2%	0.2%

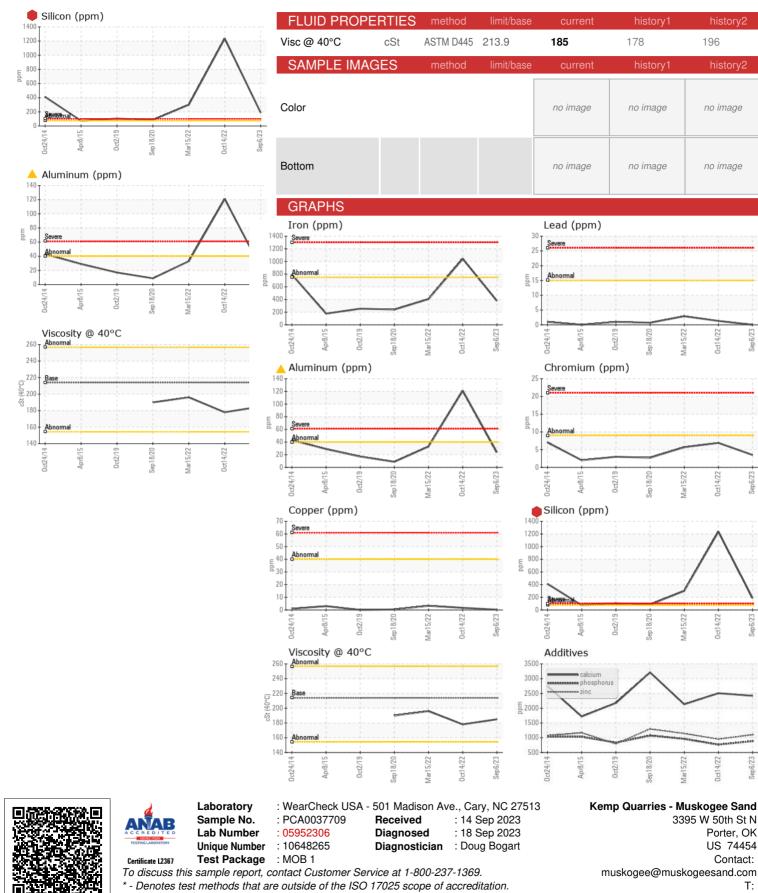
NEG

NEG

NEG



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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Porter, OK

US 74454

Contact:

T:

F:

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Oct14/22

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