

OIL ANALYSIS REPORT

Sample Rating Trend

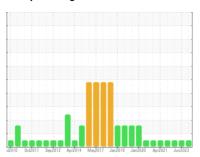
NORMAL



KEMP QUARRIES / MUSKOGEE SAND [65225] Machine Id WL015

Component Transmission (Manual)

PETRO CANADA PRODURO TO-4 SAE 30 (--- GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-2 changed fluid and filters)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

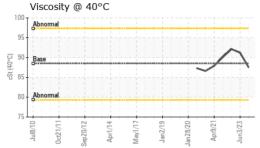
Fluid Condition

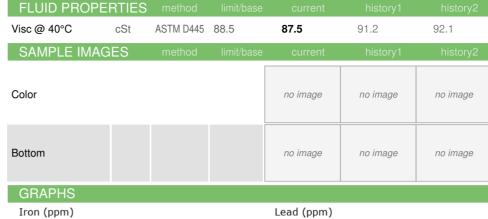
The condition of the fluid is acceptable for the time in service.

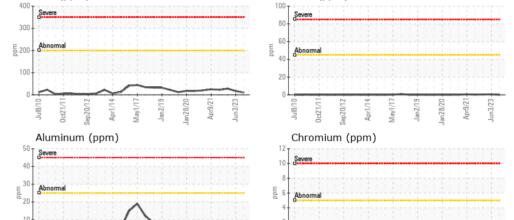
10 10-4 SAE 30 (GAL)	.12010 Oct20	11 Sep 2012 Apr 2014 M	ay2017 Jan2019 Jan2020 Apr202	1 Jun2023	
SAMPLE INFOF	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0087048	PCA0087110	PCA0070540
Sample Date		Client Info		25 Oct 2023	03 Jun 2023	16 Feb 2023
Machine Age	hrs	Client Info		2234	1895	1210
Oil Age	hrs	Client Info		2234	685	2000
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	10	17	28
Chromium	ppm	ASTM D5185m	>5	<1	0	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	3	5	5
_ead	ppm	ASTM D5185m	>45	0	<1	<1
Copper	ppm	ASTM D5185m	>225	2	2	2
Tin .	ppm		>10	1	0	<1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	2	5
Barium	ppm	ASTM D5185m	0	19	0	0
Molybdenum	ppm	ASTM D5185m	0	4	4	14
Manganese	ppm	ASTM D5185m	9	<1	0	<1
Magnesium	ppm	ASTM D5185m	1	39	41	215
Calcium	ppm	ASTM D5185m	3131	2627	2568	2118
Phosphorus	ppm	ASTM D5185m	1194	911	856	891
Zinc	ppm	ASTM D5185m	1281	1084	1048	1079
Sulfur	ppm	ASTM D5185m	3811	5010	3365	4271
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	9	14	21
Sodium	ppm	ASTM D5185m		3	0	2
Potassium	ppm	ASTM D5185m	>20	1	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	LIGHT	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

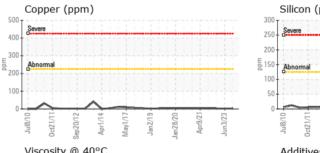


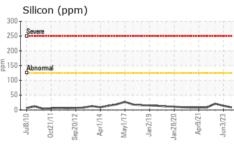
OIL ANALYSIS REPORT

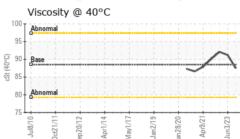


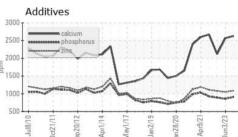














Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: PCA0087048 : 05993896 : 10722256 Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Diagnostician : Sean Felton

: 30 Oct 2023 : 01 Nov 2023 Kemp Quarries - Muskogee Sand

3395 W 50th St N Porter, OK US 74454

Contact:

T:

F:

muskogee@muskogeesand.com

* - 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)

Report Id: KEMPOR [WUSCAR] 05993896 (Generated: 11/01/2023 11:03:36) Rev: 1

Submitted By: