

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



KEMP QUARRIES / RVM-BUTTERFIELD [66114] WL081

Component Front Right Final Drive

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





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: PM-4 changed fluid)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

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

, 2014 Jun2015 Jan2016 Nov2016 May2019 Jun2020 May2020 May2020						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0087038	PCA0085770	PCA0062063
Sample Date		Client Info		08 Nov 2023	01 Jun 2023	01 Dec 2022
Machine Age	hrs	Client Info		42315	41808	41316
Oil Age	hrs	Client Info		42315	41808	41316
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>800	14	16	11
Chromium	ppm	ASTM D5185m	>10	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m	>15	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>75	0	2	1
Lead	ppm	ASTM D5185m	>10	0	<1	2
Copper	ppm	ASTM D5185m	>75	3	2	2
Tin	ppm	ASTM D5185m	>8	0	<1	<1
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	0	0	3
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	9	19	23	21
Calcium	ppm	ASTM D5185m	3114	3230	3511	3301
Phosphorus	ppm	ASTM D5185m	1099	1032	1077	984
Zinc	ppm	ASTM D5185m	1245	1266	1352	1298
Sulfur	ppm	ASTM D5185m	7086	4267	5662	5200
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		12	15	12
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	0	1	<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
					NONE NONE	NONE NONE

NORML

NORML

>0.2

*Visual

*Visual

scalar *Visual

scalar *Visual

scalar

scalar

NORML

NORML

NEG

NEG

NORML

NORML

NEG

NEG

Appearance

Free Water

Emulsified Water

Odor

NORML

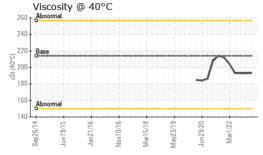
NORML

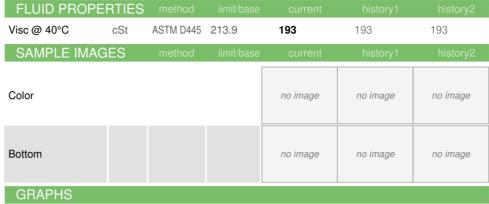
NEG

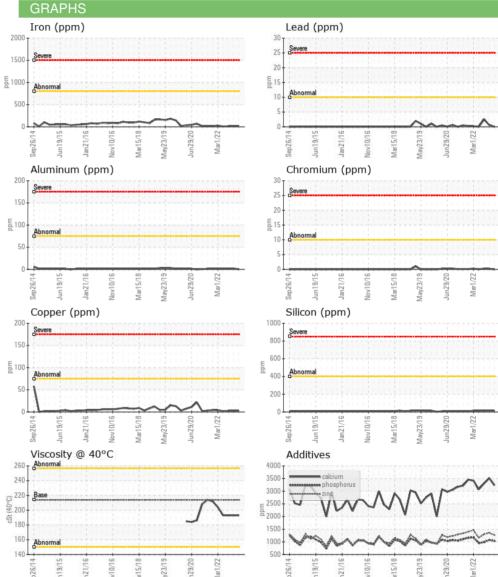
NEG



OIL ANALYSIS REPORT











Certificate L2367

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

: PCA0087038 : 06013552

: 10752696 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Nov 2023

: 22 Nov 2023 Diagnosed Diagnostician : Sean Felton

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.

US 65734 Contact: LEE DUCHANOIS Iduchanois@kempquarries.com

Kemp Quarries - RVM-Butterfield

T: F:

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

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