

OIL ANALYSIS REPORT

Sample Rating Trend





KEMP QUARRIES / MUSKOGEE SAND [68122] WL042

Component

Transmission (Manual)

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

SAMPLE INFORMATION

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.

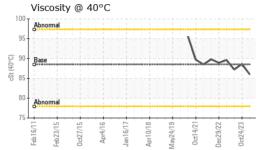
Fluid Condition

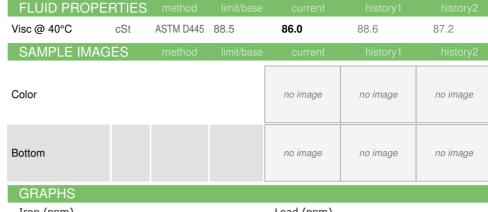
The condition of the fluid is acceptable for the time in service.

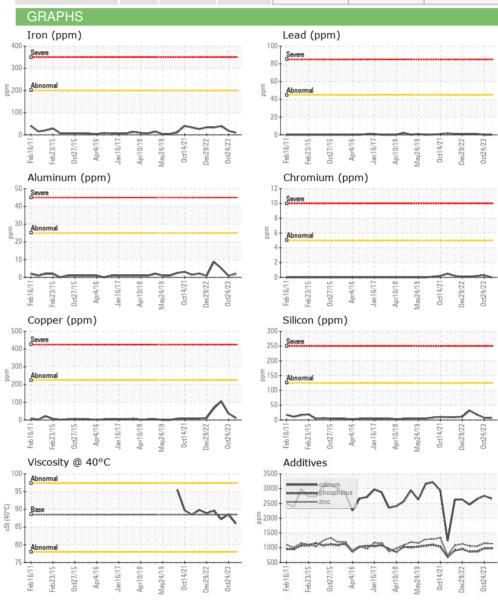
Sample Number Sample Date Machine Age	hrs	Client Info Client Info Client Info		PCA0086510 11 Jan 2024 33041	PCA0087009 24 Oct 2023 33553	PCA0084617 11 Jul 2023 244227
Oil Age	hrs	Client Info		33041	33553	29950
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	10	18	39
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>7	0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	5
Lead	ppm	ASTM D5185m	>45	0	0	1
Copper	ppm	ASTM D5185m	>225	11	36	105
Tin	ppm	ASTM D5185m	>10	<1	1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	5	2	<1
Barium	ppm	ASTM D5185m	0	0	20	0
Molybdenum	ppm	ASTM D5185m	0	3	2	4
Manganese	ppm	ASTM D5185m	9	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1	34	20	34
Calcium	ppm	ASTM D5185m	3131	2658	2759	2638
Phosphorus	ppm	ASTM D5185m	1194	976	973	870
Zinc	ppm	ASTM D5185m	1281	1141	1142	1054
Sulfur	ppm	ASTM D5185m	3811	3717	5291	3621
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>125	7	7	18
Sodium	ppm	ASTM D5185m		<1	3	0
Potassium	ppm	ASTM D5185m	>20	0	1	2
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



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Certificate L2367

Laboratory

Sample No. Lab Number Unique Number Test Package : MOB 1

: PCA0086510 : 06068027 : 10844704

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

Diagnosed

: 22 Jan 2024 : 24 Jan 2024 Diagnostician : Don Baldridge Kemp Quarries - Muskogee Sand 3395 W 50th St N

Porter, OK US 74454

Contact: MUSCOGEE NOTIFICATIONS

muskogee@muskogeesand.com T:

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)

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