

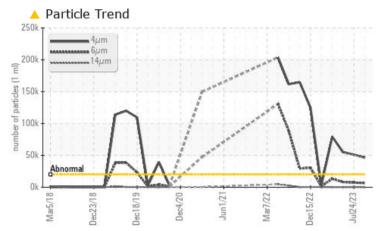
PROBLEM SUMMARY

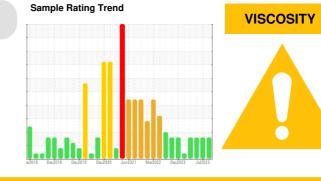
Area SOUTH KETTLE ROOM Machine Id B46483 - KETTLE 9 Component

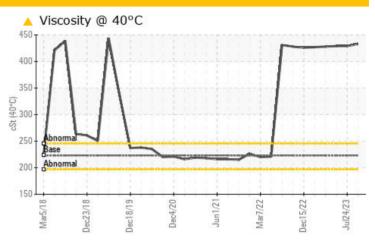
Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 220 (3 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
Particles >4µm		ASTM D7647	>20000	<u> </u>	5 1219	▲ 55018		
Particles >6µm		ASTM D7647	>5000	6504	A 7305	▲ 8242		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	A 23/20/14	▲ 23/20/14		
Visc @ 40°C	cSt	ASTM D445	223	433	4 29	4 29		

Customer Id: ROCROCUS Sample No.: WC0842456 Lab Number: 05962207 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>

RECOMMENDED A	CTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



view report

30 May 2023 Diag: Don Baldridge

24 Jul 2023 Diag: Doug Bogart



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



04 Apr 2023 Diag: Angela Borella

We recommend you service the filters on this component if applicable. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.







OIL ANALYSIS REPORT

Area SOUTH KETTLE ROOM Machine Id B46483 - KETTLE 9 Component

Gearbox

PETRO CANADA ENDURATEX SYNTHETIC EP 220 (3 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

EP 220 (3 GAL	.)	ar2018 Dec2	w2014 Gex2015 Dex2015 Dex2012 Jun2021 Mm2022 Dex2022 Jun2023				
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0842456	WC0820502	WC0799748	
Sample Date		Client Info		18 Sep 2023	24 Jul 2023	30 May 2023	
Machine Age	hrs	Client Info		0	0	0	
Oil Age	hrs	Client Info		0	0	0	
Oil Changed		Client Info		N/A	N/A	N/A	
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	6	8	6	
Chromium	ppm	ASTM D5185m	>10	0	0	0	
Nickel	ppm	ASTM D5185m	>10	0	0	0	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	18	23	18	
_ead	ppm	ASTM D5185m	>50	0	0	0	
Copper	ppm	ASTM D5185m	>200	<1	0	0	
Tin	ppm	ASTM D5185m	>10	0	0	0	
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	33	0	0	0	
Barium	ppm	ASTM D5185m	5	0	0	0	
Molybdenum	ppm	ASTM D5185m		0	0	0	
Manganese	ppm	ASTM D5185m		<1	<1	<1	
Magnesium	ppm	ASTM D5185m	5	<1	0	<1	
Calcium	ppm	ASTM D5185m	5	21	22	19	
Phosphorus	ppm	ASTM D5185m	437	524	555	505	
Zinc	ppm	ASTM D5185m	5	6	2	9	
Sulfur	ppm	ASTM D5185m	5000	606	698	566	
CONTAMINANTS	6	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	15	17	15	
Sodium	ppm	ASTM D5185m		12	12	8	
Potassium	ppm	ASTM D5185m	>20	<1	0	1	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>20000	46553	6 51219	▲ 55018	
Particles >6µm		ASTM D7647	>5000	<u> </u>	<u> </u>	▲ 8242	
Particles >14µm		ASTM D7647	>640	94	99	127	
Particles >21µm		ASTM D7647	>160	10	11	16	
Particles >38µm		ASTM D7647	>40	1	1	1	
Particles >71µm		ASTM D7647	>10	1	1	0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 23/20/14	▲ 23/20/14	▲ 23/20/14	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.7	0.38	0.337	0.36	

Sample Rating Trend

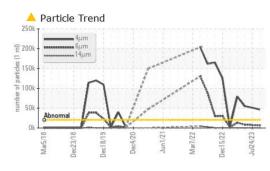
VISCOSITY

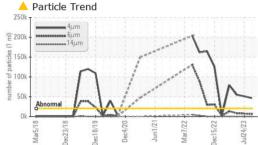


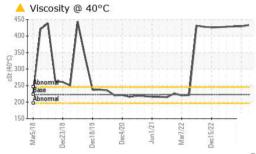
OIL ANALYSIS REPORT

method

VISUAL







Dec4/20

Certificate L2367

Acid Number

Dec23/18

Dec18/19

0.80 0.70 Bas

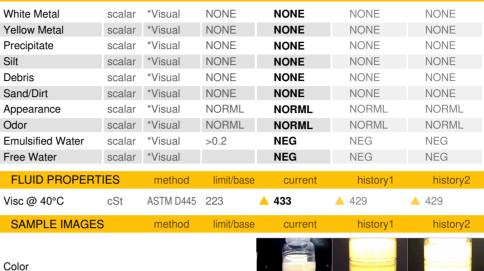
(B/HOX Bm)

40.40 Vinnber (m 0.20 Vinnber (m

0.10

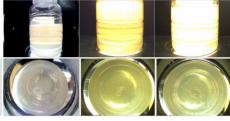
0.00

Mar5/18



limit/base

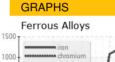
current

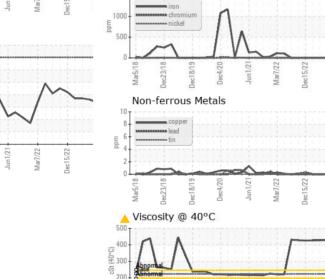


history1

history2

Bottom





Dec23/18

: WC0842456

Test Package : IND 2 (Additional Tests: PrtCount)

: 05962207

: 10668758

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.

Dec18/19

Dec4/20

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

Received

Diagnosed

Diagnostician

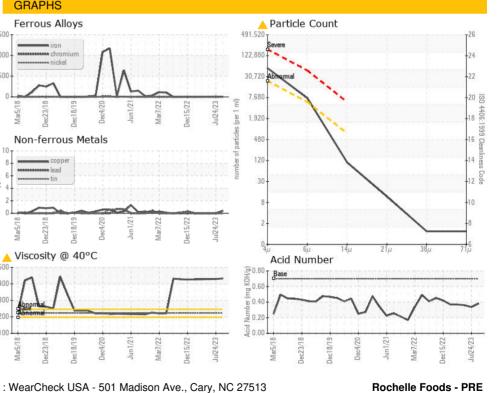
Mar7/22

Dec15/22

: 27 Sep 2023

: 28 Sep 2023

: Don Baldridge



Report Id: ROCROCUS [WUSCAR] 05962207 (Generated: 09/28/2023 13:25:58) Rev: 1

Laboratory

Sample No.

Lab Number

Unique Number

100

Contact/Location: JAMES ROBINSON III - ROCROCUS

Rochelle, IL

US 61068

T:

1001 South Main, P.O. Box 45

Contact: JAMES ROBINSON III

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