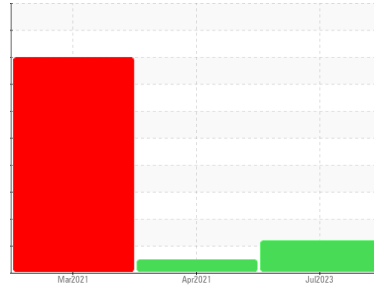


PROBLEM SUMMARY

Sample Rating Trend



VISUAL METAL



Machine Id
DR180 - KDK

Component
Transmission (Auto)

Fluid
PETRO CANADA ATF D3M (107 LTR)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

RECOMMENDATION

We advise that you check for visible metal particles in the fluid. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	SEVERE
White Metal	scalar	Visual*	NONE	▲ LIGHT	NONE	● HEAVY
PrtFilter					no image	

Customer Id: GFL286
Sample No.: PC0077037
Lab Number: 02578817
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Kevin Marson +1 (289)291-4644 x4644
Kevin.Marson@wearcheck.com

To change component or sample information:
 Gloria Gonzalez +1 (289)291-4643 x4643
gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check For Visual Metal	---	---	?	We advise that you check for visible metal particles in the fluid.

HISTORICAL DIAGNOSIS

27 Apr 2021 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

view report



29 Mar 2021 Diag: Kevin Marson

VISUAL METAL



We advise that you check for visible metal particles in the fluid. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Re-sampling is suggested to confirm test results prior to significant maintenance activities being performed. Please indicate that this is a resample on your Sample Information Form (SIF). The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) TES SYN 295. Please confirm. High concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the fluid. The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

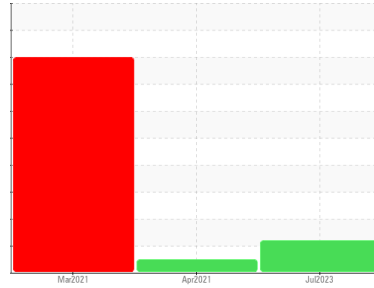
view report



Machine Id
DR180 - KDK

Component
Transmission (Auto)

Fluid
PETRO CANADA ATF D3M (107 LTR)



DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the fluid. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Light concentration of visible metal present. Gear wear is indicated.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

The AN level is acceptable for this fluid. The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PC0077037	PC0048366	PC0039682
Sample Date	Client Info	28 Jul 2023	27 Apr 2021	29 Mar 2021
Machine Age	hrs	0	6996	6782
Oil Age	hrs	0	0	0
Oil Changed	Client Info	Changed	Not Changd	Changed
Sample Status		ABNORMAL	NORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2		
PQ	ASTM D8184*	>50	0	---	24	
Iron	ppm	ASTM D5185(m)	>160	56	35	94
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>5	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>50	<1	<1	5
Lead	ppm	ASTM D5185(m)	>50	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>225	35	6	20
Tin	ppm	ASTM D5185(m)	>10	3	<1	2
Antimony	ppm	ASTM D5185(m)		0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185(m)	98	77	101	98
Barium	ppm	ASTM D5185(m)	<0.00	0	0	1
Molybdenum	ppm	ASTM D5185(m)		<1	<1	26
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	<1	4	4	5
Calcium	ppm	ASTM D5185(m)	70	73	74	84
Phosphorus	ppm	ASTM D5185(m)	220	277	232	225
Zinc	ppm	ASTM D5185(m)		21	15	13
Sulfur	ppm	ASTM D5185(m)	710	878	785	887
Lithium	ppm	ASTM D5185(m)		<1	2	<1

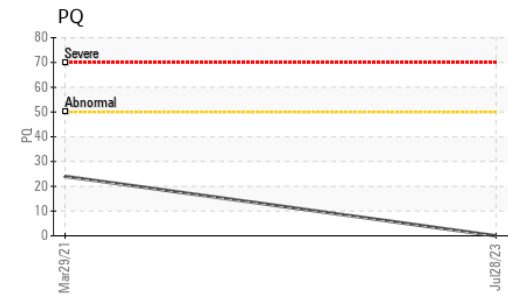
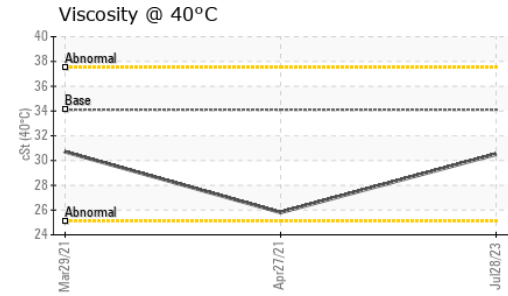
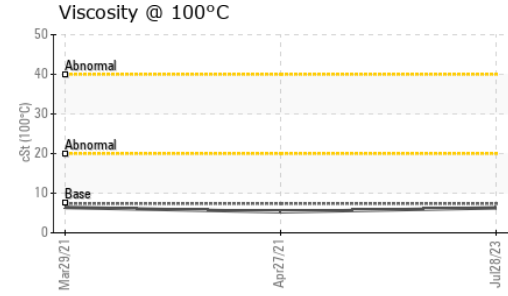
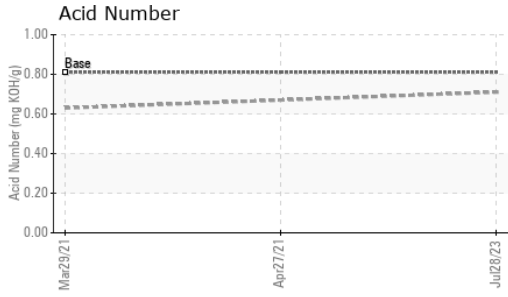
CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185(m)	>20	6	7	21
Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1

FLUID CLEANLINESS

method	limit/base	current	history1	history2	
Particles >4µm	ASTM D7647	>10000	123374	---	---
Particles >6µm	ASTM D7647	>2500	44086	---	---
Particles >14µm	ASTM D7647	>320	527	---	---
Particles >21µm	ASTM D7647	>80	34	---	---
Particles >38µm	ASTM D7647	>20	0	---	---
Particles >71µm	ASTM D7647	>4	0	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	24/23/16	---	---

OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*	0.81	0.71	---	0.63

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ LIGHT	NONE	● HEAVY
Yellow Metal	scalar	Visual*	NONE	VLITE	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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	34.11	30.5	25.8	30.7
Visc @ 100°C	cSt	ASTM D7279(m)	7.37	6.3	5.3	6.4
Viscosity Index (VI)	Scale	ASTM D2270*	190	163	143	167

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color			
Bottom			
PrtFilter		no image	



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Green Infrastructure and Partners Inc (GPI) - 266 - Shoring & Foundations
Sample No. : PC0077037 **Received** : 28 Aug 2023 151 Ram Forest Rd, Stouffville, ON
Lab Number : **02578817** **Diagnosed** : 31 Aug 2023 CA L4A 2G8
Unique Number : 5631877 **Diagnostician** : Kevin Marson
Test Package : IND 2 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, KV100, PQ, PrtCount, TAN Man, VI) Contact: Shannon Abbott
 sabbott@gipi.com

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

T: (905)750-5900
 F: