

Machine Id

WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION NORMAL

DT818 Component Rear Differential

PETRO CANADA TRAXON SYNTHETIC 75W90 (3 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Elemental level of silicon (Si) above normal.

FLUID CONDITION

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

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		PCA0113236	PCA0103267	PCA0091246
Sample Date		Client Info		11 Apr 2024	13 Sep 2023	17 Mar 2023
Machine Age	mls	Client Info		78834	51659	26287
Oil Age	mls	Client Info		61659	26287	26287
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Not Changd
Filter Changed		Client Info		N/A	N/A	None
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	maa	ASTM D5185m	>1200	208	209	158
Chromium	ppm	ASTM D5185m	>8	1	2	<1
Nickel	mag	ASTM D5185m	>20	12	9	7
Titanium	mag	ASTM D5185m	>4	<1	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	2	6	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	1	1	0
Tin	ppm	ASTM D5185m	>5	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185m	>230	▲ 342	▲ 323	284
Silicon Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>230 >20	▲ 342 0	▲ 323 3	284
Silicon Potassium Water	ppm ppm	ASTM D5185m ASTM D5185m WC Method	>230 >20 >.2	▲ 342 0 NEG	▲ 323 3 NEG	284 2 NEG
Silicon Potassium Water Silt	ppm ppm scalar	ASTM D5185m ASTM D5185m WC Method *Visual	>230 >20 >.2 NONE	▲ 342 0 NEG LIGHT	 323 3 NEG NONE 	284 2 NEG NONE
Silicon Potassium Water Silt Debris	ppm ppm scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual	>230 >20 >.2 NONE NONE	A 342 0 NEG LIGHT NONE	▲ 323 3 NEG NONE NONE	284 2 NEG NONE
Silicon Potassium Water Silt Debris Sand/Dirt	ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual	>230 >20 >.2 NONE NONE NONE	A 342 0 NEG LIGHT NONE NONE	 323 3 NEG NONE NONE NONE 	284 2 NEG NONE MODER NONE
Silicon Potassium Water Silt Debris Sand/Dirt Appearance	ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual	>230 >20 >.2 NONE NONE NONE NORML	A 342 0 NEG LIGHT NONE NONE NORML	 323 3 NEG NONE NONE NONE NORML 	284 2 NEG NONE MODER NONE NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor	ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual	>230 >20 >.2 NONE NONE NORME NORML	A 342 0 NEG LIGHT NONE NONE NORML NORML	 323 3 NEG NONE NONE NORML NORML 	284 2 NEG NONE MODER NONE NORML NORML
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual	>230 >20 >.2 NONE NONE NONE NORML NORML >.2	 342 0 NEG LIGHT NONE NONE NORML NEG 	 323 3 NEG NONE NONE NORML NEG 	284 2 NEG NONE MODER NORE NORML NEG
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m	>230 >20 >.2 NONE NONE NORML NORML >.2	 342 0 NEG LIGHT NONE NORML NORML NEG 2 	 323 3 NEG NONE NONE NORML NORML NEG 4 	284 2 NEG NONE MODER NORML NORML NEG 2
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>230 >20 >.2 NONE NONE NORML NORML >.2 328	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 	 323 3 NEG NONE NONE NORML NORML NEG 4 167 	284 2 NEG NONE MODER NORML NORML NEG 2 163
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m	>230 >20 >.2 NONE NORE NORML >.2 328 1	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 	 323 3 NEG NONE NONE NORML NORML NEG 4 167 0 	284 2 NEG NONE MODER NORML NORML NEG 2 163 0
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m	>230 >20 >20 >20 NONE NONE NORML >.2 328 1	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 2 	 323 3 NEG NONE NONE NORML NORML NEG 4 167 0 2 	284 2 NEG NONE NONE NORML NORML NEG 2 163 0 1
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>230 >20 >.2 NONE NONE NORML NORML >.2 328 1	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 2 3 	 323 3 NEG NONE NONE NORML NORML NEG 4 167 0 2 4 	284 2 NEG NONE MODER NORML NORML NEG 2 163 0 1 3
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >230 >20 >.2 NONE NORME NORML >.2 328 1 1 	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 2 3 10 	 323 323 NEG NONE NONE NORML NORML NEG 4 167 0 2 4 17 	284 2 NEG NONE NONE NORML NORML NEG 2 163 0 11 3 18
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >230 >20 >2 NONE NONE NORML NORML >.2 328 1 .1 7 	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 2 3 10 64 	 323 3 NEG NONE NONE NORML NORML NEG 4 167 0 2 4 17 69 	284 2 NEG NONE NONE NORML NORML NEG 2 163 0 1 13 3 18 60
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >230 >20 >20 >20 NONE NORML NORML >.2 3288 1 .2 1 7 1145 	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 2 3 10 64 1135 	 323 323 NEG NONE NONE NORML NORML NEG 4 167 0 2 4 17 69 1163 	284 2 NEG NONE NONE NORML NORML NEG 2 163 0 1 163 0 1 18 60 1066
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >230 >20 NORME NORML >2 328 1 328 1 1 7 1145 3 	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 2 3 10 64 1135 31 	 323 323 NEG NONE NONE NORML NORML NEG 4 167 0 2 4 17 69 1163 25 	284 2 NEG NONE NONE NORML NORML NEG 2 163 0 11 3 18 60 1066 29
Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m WC Method *Visual *Visual *Visual *Visual *Visual *Visual ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	 >230 >20 >20	 342 0 NEG LIGHT NONE NORML NORML NEG 2 158 <1 2 3 10 64 1135 31 29544 	 323 3 NEG NONE NONE NORML NORML NEG 4 167 0 2 4 17 69 1163 25 30929 	284 2 NEG NONE NONE NORML NORML NEG 2 163 0 113 3 18 60 1066 29 25056

Submitted By: Under NWWDUN - James Threatt





NW WHITE & CO - ANDERSON DIVISION 2605 RIVER RD PIEDMONT, SC Idridge US 29673 Contact: James Threatt jthreatt@nwwhite.com T: (864)918-4646 e (JCGM 106:2012) F:



 Unique Number
 : 10980796
 Diagnosed
 : 18 Apr 2024 - Don Baldridge

 Certificate L2367
 Test Package
 : FLEET
 Certificate

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

 * - 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)

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

Received

Tested

: 16 Apr 2024

: 17 Apr 2024

Laboratory

Sample No.

Lab Number : 06150718

: PCA0113236

Submitted By: Under NWWDUN - James Threatt Page 2 of 2