

Machine Id 054897-1650

Swing Drive

## PETRO CANADA TRAXON 75W90 SYNTHETIC (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.

## **WEAR**

Chromium and iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

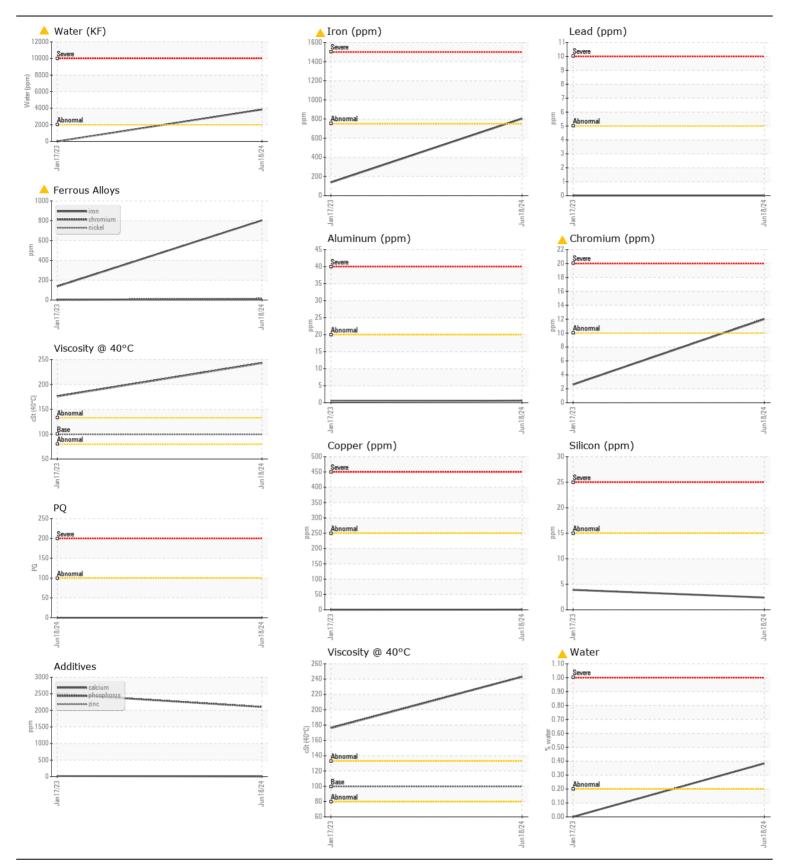
## CONTAMINATION

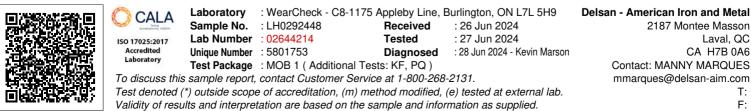
There is a moderate concentration of water present in the oil.

## **FLUID CONDITION**

Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within SAE 80W140 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0292448	LH0243058	
	Sample Date		Client Info		18 Jun 2024	17 Jan 2023	
	Machine Age	hrs	Client Info		1937	641	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	NORMAL	
	PQ		ASTM D8184*		0		
	Iron	ppm	ASTM D5185(m)	>750	A 804	137	
	Chromium	ppm	ASTM D5185(m)	>10	▲ 12	3	
	Nickel		ASTM D5185(m)	>5	<1	<1	
	Titanium	ppm ppm	ASTM D5185(m)	20	<1	<1	
	Silver	ppm	ASTM D5185(m)		0	0	
	Aluminum	ppm	ASTM D5185(m)	>20	۰ <1	<1	
	Lead	ppm	ASTM D5185(m)	>5	0	0	
	Copper	ppm	ASTM D5185(m)	>250	۰ <1	0	
	Tin	ppm	ASTM D5185(m)	>10	0	0	
	Vanadium	ppm	ASTM D5185(m)	210	0	0	
	White Metal	scalar	Visual*	NONE	NONE	NONE	
	Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
	Silicon	ppm	ASTM D5185(m)	>15	2	4	
	Potassium	ppm	ASTM D5185(m)	>20	<1	<1	
	Water	%	AOTH DOOD (*				
		/0	ASTM D6304*	>0.2	<b>A</b> 0.384		
	ppm Water	ppm	ASTM D6304* ASTM D6304*	>0.2 >2000	▲ 0.384 ▲ 3842		
	ppm Water Silt						
	••	ppm	ASTM D6304*	>2000	▲ 3842		
	Silt	ppm scalar	ASTM D6304* Visual*	>2000 NONE	▲ 3842 NONE	 NONE NONE NONE	
	Silt Debris	ppm scalar scalar	ASTM D6304* Visual* Visual*	>2000 NONE NONE	A 3842 NONE NONE	 NONE NONE	
	Silt Debris Sand/Dirt Appearance Odor	ppm scalar scalar scalar	ASTM D6304* Visual* Visual* Visual* Visual* Visual*	>2000 NONE NONE NORML NORML	3842     NONE     NONE     NORE     NORML     NORML	NONE NONE NONE NORML NORML	 
	Silt Debris Sand/Dirt Appearance	ppm scalar scalar scalar scalar	ASTM D6304* Visual* Visual* Visual* Visual*	>2000 NONE NONE NORE	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> </ul>	NONE NONE NONE NORML	  
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual*	>2000 NONE NONE NORML NORML	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> </ul>	 NONE NONE NORML NORML NEG	   
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	ppm scalar scalar scalar scalar scalar scalar	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>2000 NONE NONE NORML >0.2	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> </ul>	 NONE NONE NORML NORML NEG 4	   
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water	ppm scalar scalar scalar scalar scalar scalar ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>2000 NONE NONE NORML NORML >0.2	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1</li> <li>6</li> </ul>	 NONE NONE NORML NORML NEG 4 2	   
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m)	>2000 NONE NONE NORML >0.2	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> </ul>	 NONE NONE NORML NORML NEG 4	
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	>2000 NONE NONE NORML NORML >0.2	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1</li> <li>6</li> <li>&lt;1</li> </ul>	 NONE NONE NORML NORML NEG 4 2 5	
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>2000 NONE NONE NORML NORML >0.2	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1</li> <li>6</li> <li>&lt;1</li> <li>0</li> </ul>	 NONE NONE NORML NORML NEG 4 2 5 5	
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	ppm scalar scalar scalar scalar scalar scalar ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>2000 NONE NONE NORML NORML >0.2 328 1	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1</li> <li>6</li> <li>&lt;1</li> <li>0</li> <li>9</li> </ul>	 NONE NONE NORML NORML NEG 4 2 5 <1 2	
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>2000 NONE NONE NORML >0.2 328 1 	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1%</li> <li>1</li> <li>6</li> <li>&lt;1</li> <li>0</li> <li>9</li> <li>&lt;1</li> </ul>	 NONE NONE NORML NORML NEG 4 2 5 <1 2 2 3	
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Sodium Barium Barium Molybdenum Manganese Magnesium Calcium	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;2000</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>328</li> <li>1</li> <li>1</li> <li>7</li> </ul>	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1%</li> <li>1%</li> <li>1%</li> <li>21</li> <li>9</li> <li>&lt;1</li> <li>7</li> </ul>	 NONE NONE NORML NORML NEG 4 2 5 <1 2 3 18	
	Silt Debris DadvDirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;2000</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>328</li> <li>1</li> <li>1</li> <li>7</li> <li>1145</li> </ul>	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1%</li> <li>1</li> <li>6</li> <li>&lt;1</li> <li>0</li> <li>9</li> <li>&lt;1</li> <li>7</li> <li>2103</li> </ul>	 NONE NONE NORML NORML NEG 4 2 5 <1 2 3 18 2492	
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Sodium Boron Barium Molybdenum Malybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D6304* Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	<ul> <li>&gt;2000</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>&gt;0.2</li> <li>328</li> <li>1</li> <li>1</li> <li>7</li> <li>1145</li> <li>3</li> </ul>	<ul> <li>3842</li> <li>NONE</li> <li>NONE</li> <li>NORML</li> <li>NORML</li> <li>1%</li> <li>1%</li> <li>1%</li> <li>1</li> <li>6</li> <li>&lt;1</li> <li>0</li> <li>9</li> <li>&lt;1</li> <li>7</li> <li>2103</li> <li>11</li> </ul>	 NONE NONE NORML NORML NEG 4 2 5 4 2 5 5 4 2 3 18 2492 14	





Laval, QC

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