

OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id DT841 Component

Rear Differential

PETRO CANADA TRAXON SYNTHETIC 75W90 (3 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

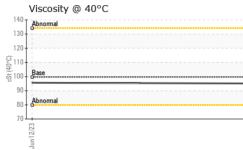
Fluid Condition

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

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113225	PCA0096998	
Sample Date		Client Info		11 Jan 2024	12 Jun 2023	
Machine Age	mls	Client Info		52305	26834	
Oil Age	mls	Client Info		52305	26834	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>1200	159	144	
Chromium	ppm	ASTM D5185m	>8	1	1	
Nickel	ppm	ASTM D5185m	>20	9	8	
Titanium	ppm	ASTM D5185m	>4	0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>30	3	2	
Lead	ppm	ASTM D5185m	>25	0	0	
Copper	ppm	ASTM D5185m	>50	1	1	
Tin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m	20	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ppm	method	limit/base	current	history1	history2
Haron	nnm	ACTM DE185m	200	150	170	
	ppm	ASTM D5185m	328	152	170	
Barium	ppm	ASTM D5185m	328 1	0	0	
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	0 <1	
Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1	0 <1 3	0 <1 4	
Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1	0 <1 3 4	0 <1 4 4	
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 1 7	0 <1 3 4 11	0 <1 4 4 18	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 1 7 1145	0 <1 3 4 11 1021	0 <1 4 4 18 1091	
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 1 7 1145 3	0 <1 3 4 11 1021 3	0 <1 4 4 18 1091 <1	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 1 7 1145	0 <1 3 4 11 1021	0 <1 4 4 18 1091	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 1 7 1145 3	0 <1 3 4 11 1021 3	0 <1 4 4 18 1091 <1	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	1 1 7 1145 3 17909	0 <1 3 4 11 1021 3 23512	0 <1 4 4 18 1091 <1 29620	
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method	1 1 7 1145 3 17909 limit/base	0 <1 3 4 11 1021 3 23512 current	0 <1 4 4 18 1091 <1 29620 history1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1 1 7 1145 3 17909 Iimit/base >230	0 <1 3 4 11 1021 3 23512 current 132	0 <1 4 4 18 1091 <1 29620 history1 130	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1 1 7 1145 3 17909 Iimit/base >230	0 <1 3 4 11 1021 3 23512 current 132 3	0 <1 4 4 18 1091 <1 29620 history1 130 4	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m	1 1 7 1145 3 17909 limit/base >230 >20	0 <1 3 4 11 1021 3 23512 current 132 3 2	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1	 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ypm	ASTM D5185m ASTM D5185m	1 1 7 1145 3 17909 limit/base >230 >20 limit/base	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 130 4 <1 history1 NONE NONE	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D5185m	1 1 7 1145 3 17909 limit/base >230 limit/base NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current NONE	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 130 4 <1 history1 NONE	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm VTS	ASTM D5185m ASTM D5185m Yisual	1 1 7 1145 3 17909 <i>limit/base</i> >230 <i>limit/base</i> NONE NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current NONE NONE	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 130 4 <1 history1 NONE NONE	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm VTS	ASTM D5185m ASTM D5185m Yisual	1 1 7 1145 3 17909 <i>limit/base</i> >230 <i>limit/base</i> NONE NONE NONE NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current NONE NONE NONE	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 130 4 <1 NONE NONE NONE NONE	 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D5185m Y Usual *Visual *Visual	1 1 7 1145 3 17909 <i>limit/base</i> >230 <i>limit/base</i> NONE NONE NONE NONE NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current NONE NONE NONE NONE NONE	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 130 4 <1 NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D5185m Yisual *Visual *Visual *Visual *Visual	1 1 7 1145 3 17909 limit/base >230 limit/base NONE NONE NONE NONE NONE NONE NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 current NONE NONE NONE NONE NONE LIGHT	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 NONE NONE NONE NONE NONE NONE NONE NONE	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual	1 1 7 1145 3 17909 limit/base >230 limit/base NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current NONE NONE NONE NONE NONE NONE LIGHT NONE	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ypm ypm	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	1 1 7 1145 3 17909 <i>limit/base</i> >230 <i>limit/base</i> >20 <i>limit/base</i> NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current NONE NONE NONE NONE LIGHT NONE LIGHT NONE NONE	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 NONE	 history2 history2 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm ypm ppm p	ASTM D5185m ASTM D5185m Visual *Visual *Visual *Visual *Visual *Visual *Visual	1 1 7 1145 3 17909 <i>limit/base</i> >230 <i>limit/base</i> >20 <i>limit/base</i> NONE	0 <1 3 4 11 1021 3 23512 current 132 3 2 2 current NONE NONE NONE NONE NONE NONE NONE NON	0 <1 4 4 18 1091 <1 29620 history1 130 4 <1 NONE NONE NONE NONE NONE NONE NONE NON	 history2 history2



OIL ANALYSIS REPORT



	FLUID PROPE	ERTIES	method	limit/base	current	history1	history
	Visc @ 40°C	cSt	ASTM D445	99.6	95.1	95.6	
	SAMPLE IMAG	GES	method	limit/base	current	history1	history
	Color				no image	no image	no image
Jan 11/24 -							
ب a	Bottom				no image	no image	no image
	GRAPHS						
	Ferrous Alloys						
	140 - iron chromium						
	120-						
udd	100						
۵.	60 -						
	40-						
	20						
	Jun12/23			Jan 11/24 -			
	특 Non-ferrous Meta			Jan			
	¹⁰						
	9 - competence lead						
	7-6						
	E. 5 -						
	4						
	2-						
	Jun 12/23			Jan 11/24			
	⊸ Viscosity @ 40°C			7			
	Abnormal						
	130						
	120						
St (40°C	110 - Base						
0	90						
	80 - Abnormal						
	70						
	Jun 12/23			Jan 11/24			
aboratory ample No. ab Number nique Number est Package	: WearCheck USA - : PCA0113225 : 06067120 : 10843797 : FLEET	Recieved Diagnose Diagnosti	: 22 d : 23 cian : We	ary, NC 2751 Jan 2024 Jan 2024 s Davis	3 NW WH	F Contact:	605 RIVER PIEDMONT, US 29 James Thr
nethods that ar	contact Customer Serv re outside of the ISO fications are based on	17025 scop	be of accred	litation.	(JCGM 106:2012	T:	@nwwhite.c (864)918-4

Certificate L2367