

## **OIL ANALYSIS REPORT**

Sample Rating Trend



#### Machine Id **98017** Component **Gasoline Engine** Fluid **PETRO CANADA DURON UHP 5W30 (--- 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

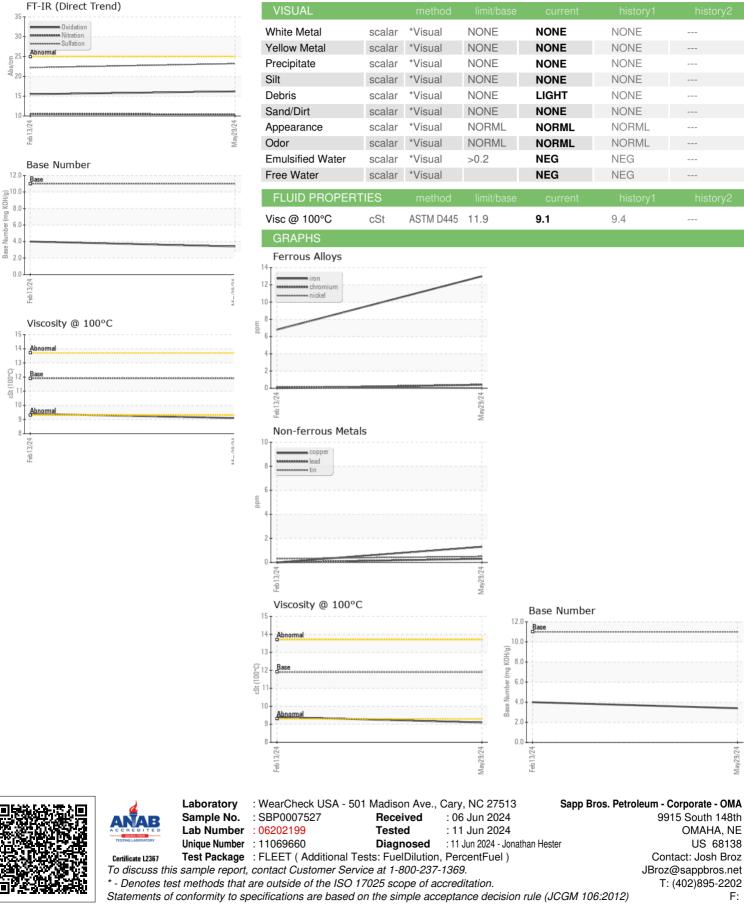
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	NATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP0007527	SBP0005982	
Sample Date		Client Info		29 May 2024	13 Feb 2024	
Machine Age	mls	Client Info		149736	0	
Oil Age	mls	Client Info		0	142056	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	13	7	
Chromium	ppm	ASTM D5185m	>20	<1	0	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>40	3	2	
Lead	ppm	ASTM D5185m	>50	<1	0	
Copper	ppm	ASTM D5185m	>155	1	0	
Tin	ppm	ASTM D5185m	>10	<1	<1	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	36	44	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	64	85	66	
Manganese	ppm		0	0	<1	
Magnesium	ppm	ASTM D5185m	1160	564	501	
Calcium	ppm	ASTM D5185m	820	1129	1115	
Phosphorus	ppm	ASTM D5185m	1160	849	630	
Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1260 3000	870 3195	749 2526	
	ppm			3195		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	16	13	
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>30 >400	16 1	13 1	
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>30 >400 >20	16 1 3	13 1 1	
Silicon Sodium Potassium Fuel	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524	>30 >400 >20 >4.0	16 1 3 <1.0	13 1 1 <1.0	
Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method	>30 >400 >20	16 1 3 <1.0 current	13 1 1 <1.0 history1	
Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>30 >400 >20 >4.0 limit/base	16 1 3 <1.0 current 0.1	13 1 1 <1.0 history1 0	   history2
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 <b>method</b> *ASTM D7844 *ASTM D7624	>30 >400 >20 >4.0 limit/base >20	16 1 3 <1.0 current 0.1 10.4	13 1 1 <1.0 history1 0 10.5	  history2 
Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm %	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 method *ASTM D7844	>30 >400 >20 >4.0 limit/base	16 1 3 <1.0 current 0.1	13 1 1 <1.0 history1 0	   history2
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 <b>method</b> *ASTM D7844 *ASTM D7624	>30 >400 >20 >4.0 limit/base >20	16 1 3 <1.0 current 0.1 10.4	13 1 1 <1.0 history1 0 10.5	  history2 
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D3524 <b>method</b> *ASTM D7844 *ASTM D7624 *ASTM D7415	>30 >400 >20 >4.0 limit/base >20 >30	16 1 3 <1.0 current 0.1 10.4 23.2	13 1 1 <1.0 history1 0 10.5 22.2	  history2  



Base

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