

# **OIL ANALYSIS REPORT**

Area [4369] 12022CD

Component
New (Unused) Oil
Fluid

PETRO CANADA LUMINOL TRI (--- GAL)

# Sample Rating Trend

NORMAL

### Recommendation

This is a baseline read-out on the submitted sample.

### Wear

{not applicable}

### Contamination

{not applicable}

## **Fluid Condition**

Pour Point = -60°C.

				Dec2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP0000866		
Sample Date		Client Info		19 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
Water		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>5	0		
Chromium	ppm	ASTM D5185(m)	>5	0		
Nickel	ppm	ASTM D5185(m)	>5	<1		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	0		
Aluminum	ppm	ASTM D5185(m)	>5	<1		
Lead	ppm	ASTM D5185(m)	>5	0		
Copper	ppm	ASTM D5185(m)	>5	0		
Tin	ppm	ASTM D5185(m)	>5	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Codmium	nnm	ACTM DE10E/m		•		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES	ррш	method	limit/base	current	history1	history2
	ppm		limit/base			
ADDITIVES		method ASTM D5185(m)		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185(m)	0	current 0	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185(m) ASTM D5185(m)	0	current 0 0	history1	history2
ADDITIVES Boron Barium Molybdenum	ppm ppm	method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	0 0 0	current 0 0 0	history1  	history2  
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	0 0 0	current 0 0 0 0	history1	history2   
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium	ppm ppm ppm ppm	method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	0 0 0 0	current 0 0 0 0 <	history1	history2   
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium	ppm ppm ppm ppm ppm	method  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	0 0 0 0 0	current 0 0 0 0 0 <	history1	history2   
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus	ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)	0 0 0 0 0 0	current 0 0 0 0 0 <-1 0 0	history1	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc	ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)	0 0 0 0 0 0 0	current 0 0 0 0 0 <	history1	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)	0 0 0 0 0 0 0	current 0 0 0 0 0 <-1 0 0 <-1 0 0 <-1 0 0	history1	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)	0 0 0 0 0 0 0 0 0	current 0 0 0 0 0    0    0    0   0   0   <1   0   <1   0   <1	history1	history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium  CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)	0 0 0 0 0 0 0 0 0 10	current  0 0 0 0 0 <1 0 <1 0 <1 current	history1	history2 history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium  CONTAMINANTS  Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	Method  ASTM D5185(m)	0 0 0 0 0 0 0 0 10 limit/base	current  0 0 0 0 0 <1 0 <1 0 <1 current 0	history1 history1	history2 history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium  CONTAMINANTS  Silicon  Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)	0 0 0 0 0 0 0 0 10 limit/base >15 >5	current 0 0 0 0 0 <li>0 </li> <li>0 </li> <li>0 </li> <li>0 </li> <li>1 </li> <li>0 </li> <li>&lt;1 </li> <li>current </li> <li>0 </li>	history1 history1	history2 history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium  CONTAMINANTS  Silicon  Sodium  Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	Method  ASTM D5185(m)	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20	current  0 0 0 0 0 <1 0 <1 0 <1 0 <1 0 <1 current 0 <1	history1 history1	history2 history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium  CONTAMINANTS  Silicon  Sodium  Potassium  VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)  method	0 0 0 0 0 0 0 0 10 limit/base >5 >20	current  0 0 0 0 0 <1 0 <1 0 <1 0 <1 current  0 current  0 current	history1 history1 history1	history2 history2 history2 history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium  CONTAMINANTS  Silicon  Sodium  Potassium  VISUAL  White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  MASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)  ASTM D5185(m)	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base	current  0 0 0 0 0 <1 0 <1 0 <1 0 <1 current  0 current  NONE	history1 history1 history1	history2 history2 history2 history2
ADDITIVES  Boron  Barium  Molybdenum  Manganese  Magnesium  Calcium  Phosphorus  Zinc  Sulfur  Lithium  CONTAMINANTS  Silicon  Sodium  Potassium  VISUAL  White Metal  Yellow Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method  ASTM D5185(m)  method  ASTM D5185(m) ASTM D5185(m)  MSTM D5185(m)  The control of th	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base	current 0 0 0 0 0 <1 0 <1 0 <1 0 <1 current 0 current NONE NONE	history1 history1 history1	history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	method  ASTM D5185(m)  method  ASTM D5185(m) ASTM D5185(m)  ASTM D5185(m)  Visual*  Visual*	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base NONE NONE	Current   O   O   O   O   O   O   O   O   O	history1 history1 history1 history1	history2 history2 history2 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	method  ASTM D5185(m)  METHOD  method  ASTM D5185(m) ASTM D5185(m)  Visual*  Visual*  Visual*	0 0 0 0 0 0 0 0 0 0 10	Current  0 0 0 0 0 <1 0 <1 0 <1 0 <1 0 <1 current  NONE NONE NONE	history1 history1 history1	history2 history2 history2 history2

NORML

scalar Visual\*

NORML

ation:-Mark Michalkoff -- OLENIA



# **OIL ANALYSIS REPORT**

FLUID PROPER	TIES	method	limit/base	current	history1	history2
Pour Point	°C	ASTM D97*	-60	-60		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color					no image	no image
Bottom					no image	no image
GRAPHS						



**CALA** ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : 02604547 Unique Number : 5697632

: PP0000866

Recieved Diagnosed

: 20 Dec 2023 : 20 Dec 2023

Diagnostician : Kevin Marson

Test Package : TEST ( Additional Tests: ICP, PourPt, Visual )

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.

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