

OIL ANALYSIS REPORT

Area [4358] 12-007-CD

New (Unused) Oil

PETRO CANADA LUMINOL TRI (--- GAL)

Sample Rating Trend



Recommendation

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

Wear

{not applicable}

Contamination

{not applicable}

Fluid Condition

Pour Point = -63°C.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PP0000876		
Sample Date		Client Info		08 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION		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	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>5	<1		
Aluminum	ppm	ASTM D5185(m)	>5	0		
Lead	ppm	ASTM D5185(m)	>5	<1		
Copper	ppm	ASTM D5185(m)	>5	<1		
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		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES.						
ADDITIVES		method	limit/base	current	history1	history2
_	ppm	method ASTM D5185(m)	limit/base	current <1	history1	history2
Boron	ppm ppm		0			
Boron Barium		ASTM D5185(m)	0	<1		
Boron Barium Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)	0 0 0	<1 <1		
Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0	<1 <1 0		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	<1 <1 0		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0	<1 <1 0 0		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0	<1 <1 0 0 0		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0	<1 <1 0 0 0 0 0		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 0	<1 <1 0 0 0 0 0 0		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 0	<1 <1 0 0 0 0 0 0 0 <1 0		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 0 0 0	<1 <1 0 0 0 0 0 0 0 0 0 <1 0 0 <1 0 current		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 0 0 0 10	<1 <1 0 0 0 0 0 0 0 0 0 <1 0 <1 current	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m)	0 0 0 0 0 0 0 0 10 limit/base	<1 <1 0 0 0 0 0 0 0 0 0 <1 0 0 <1 0 current	 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	0 0 0 0 0 0 0 0 10 limit/base >15 >5	<1 <1 0 0 0 0 0 0 0 0 0 <1 0 0 <1 0 0 0 0	history1	history2
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	ASTM D5185(m)	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20	<1 <1 0 0 0 0 0 0 0 <1 0 <1 current 0 0 0		history2
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	ASTM D5185(m) MASTM D5185(m) ASTM D5185(m)	0 0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20	<1 <1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	history1 history1	history2
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	ASTM D5185(m) Visual*	0 0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base	<1 <1 0 0 0 0 0 0 0 <1 0 <1 0 current 0 0 0 NONE	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Wisual*	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base	<1 <1 0 0 0 0 0 0 0 <1 0 <1 current 0 0 current NONE	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) Wisual* Visual*	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base NONE NONE	<1 <1 0 0 0 0 0 0 0 <1 0 <1 0 current NONE NONE	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) Wethod Visual* Visual* Visual*	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base NONE NONE	<1 <1 0 0 0 0 0 0 0 <1 0 <1 0 <1 current 0 0 current NONE NONE NONE NONE	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm	ASTM D5185(m) MASTM D5185(m) MASTM D5185(m) METHOD ASTM D5185(m) Wethod Visual* Visual* Visual* Visual*	0 0 0 0 0 0 0 0 10 limit/base >15 >5 >20 limit/base NONE NONE NONE	<1 <1 0 0 0 0 0 0 0 <1 0 <1 0 current NONE NONE NONE NONE NONE NONE NONE NO	history1 history1	history2 history2

ation:-Mark Michalkoff -- OLENIA

NORML

NORML

scalar Visual*



OIL ANALYSIS REPORT

FLUID PROPER	TIES	method	limit/base	current	history1	history2
Pour Point	°C	ASTM D97*	-60	-63		
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				91800009	no image	no image
Bottom					no image	no image
GRAPHS						



CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. : PP0000876 Lab Number : 02602461 Unique Number : 5695546

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 11 Dec 2023 Diagnosed : 12 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.

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Validity of results and interpretation are based on the sample and information as supplied.

Oleo Energies