

Machine Id CATERPILLAR AD30 TRK227 (S/N 100016191) Component Front Differential Fluid PETRO CANADA PRODURO TO-4 SAE 50 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

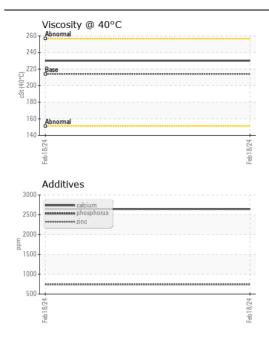
There is no indication of any contamination in the oil.

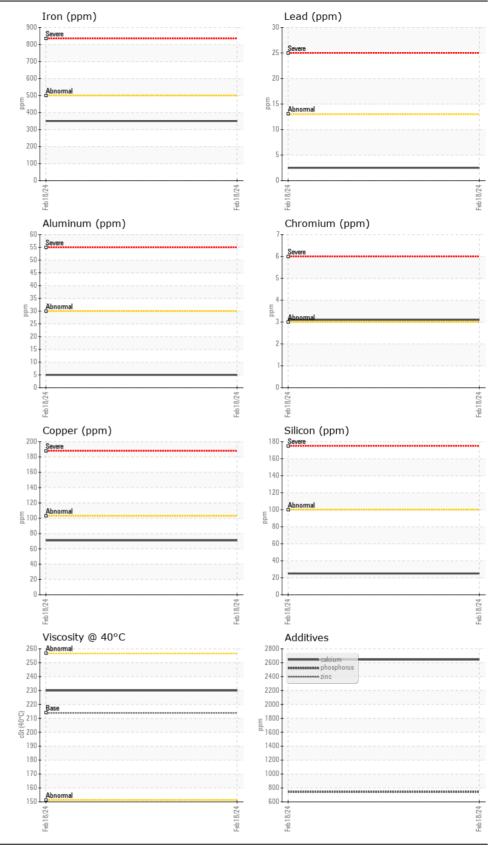
FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0881700		
Sample Date		Client Info		18 Feb 2024		
Machine Age	hrs	Client Info		1691		
Oil Age	hrs	Client Info		0		
Filter Age	hrs	Client Info		0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		N/A		
Sample Status				NORMAL		
Iron	ppm	ASTM D5185(m)	>500	350		
Chromium	ppm	ASTM D5185(m)	>3	3		
Nickel	ppm	ASTM D5185(m)	>3	2		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>30	5		
Lead	ppm	ASTM D5185(m)	>13	2		
Copper	ppm	ASTM D5185(m)	>103	71		
Tin	ppm	ASTM D5185(m)	>5	2		
Vanadium	ppm	ASTM D5185(m)		0		
		\/:	NONE			
White Metal	scalar	Visual*		NONE		
Yellow Metal	scalar scalar	Visual*	NONE	NONE		
				-		
Yellow Metal	scalar	Visual*	NONE	NONE		
Yellow Metal Silicon	scalar ppm	Visual* ASTM D5185(m)	NONE >100	NONE		
Yellow Metal Silicon Potassium	scalar ppm	Visual* ASTM D5185(m) ASTM D5185(m)	NONE >100 >20	NONE 25 1	 	
Yellow Metal Silicon Potassium Water	scalar ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method	NONE >100 >20 >.2	NONE 25 1 NEG		
Yellow Metal Silicon Potassium Water Silt	scalar ppm ppm scalar	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual*	NONE >100 >20 >.2 NONE	NONE 25 1 NEG NONE		
Yellow Metal Silicon Potassium Water Silt Debris	scalar ppm ppm scalar scalar	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual*	NONE >100 >20 >.2 NONE NONE	NONE 25 1 NEG NONE NONE		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt	scalar ppm ppm scalar scalar scalar	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual*	NONE >100 >20 >.2 NONE NONE NONE	NONE 25 1 NEG NONE NONE NONE		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance	scalar ppm ppm scalar scalar scalar scalar	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual*	NONE >100 >20 >.2 NONE NONE NONE NORML	NONE 25 1 NEG NONE NONE NORE		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water	scalar ppm scalar scalar scalar scalar scalar scalar	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	NONE >100 >20 >.2 NONE NONE NONE NORML	NONE 25 1 NEG NONE NONE NORE NORML NEG		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium	scalar ppm scalar scalar scalar scalar scalar scalar scalar	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual*	NONE >100 >20 >.2 NONE NONE NONE NORML NORML >.2	NONE 25 1 NEG NONE NONE NORML NORML NEG 2		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron	scalar ppm scalar scalar scalar scalar scalar scalar scalar ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NORML NORML >.2	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NORML NORML >.2 2 0	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NONE NORML NORML >.2 2 0 0	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1 <1		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese	scalar ppm ppm scalar scalar scalar scalar scalar ppm ppm ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NORML NORML >.2 2 0 0 0 0	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1 <1 3		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NORML NORML >.2 2 0 0 0 0 0 9	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1 <1 3 9		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NONE NORML >.2 2 0 0 0 0 0 9 3114	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1 <1 3 9 2644		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NORML NORML >.2 2 0 0 0 0 9 3114 1099	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1 <1 3 (1 3 9 2644 745		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NORML NORML >.2 2 0 0 0 0 9 3114 1099 1245	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1 <1 3 0 <1 <1 3 9 2644 745 743		
Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Molybdenum Manganese Magnesium Calcium	scalar ppm scalar scalar scalar scalar scalar scalar ppm ppm ppm ppm ppm ppm	Visual* ASTM D5185(m) ASTM D5185(m) WC Method Visual* Visual* Visual* Visual* Visual* Visual* ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	NONE >100 >20 >.2 NONE NONE NORML NORML >.2 2 0 0 0 0 9 3114 1099	NONE 25 1 NEG NONE NONE NORML NORML NEG 2 30 <1 <1 3 (1 3 9 2644 745		

Contact/Location: Mike Campbell - KIR370KIR





Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Agnico Eagle Canada CALA Sample No. Received : 21 Feb 2024 1350 Government Rd. W, MACASSA COMPLEX : WC0881700 Lab Number : 02617205 Tested : 21 Feb 2024 Kirkland Lake, ON ISO 17025:2017 Accredited Unique Number : 5734315 : 22 Feb 2024 - Kevin Marson CA P2N 3J1 Diagnosed Laboratory Test Package : MOB 1 Contact: Mike Campbell To discuss this sample report, contact Customer Service at 1-800-268-2131. mike.campbell@agnicoeagle.com T: (705)567-5208 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. F: (705)567-5221

Contact/Location: Mike Campbell - KIR370KIR