

# **OIL ANALYSIS REPORT**





# CATERPILLAR AD30 TRK226

Component **Front Differential** 

PETRO CANADA PROD

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

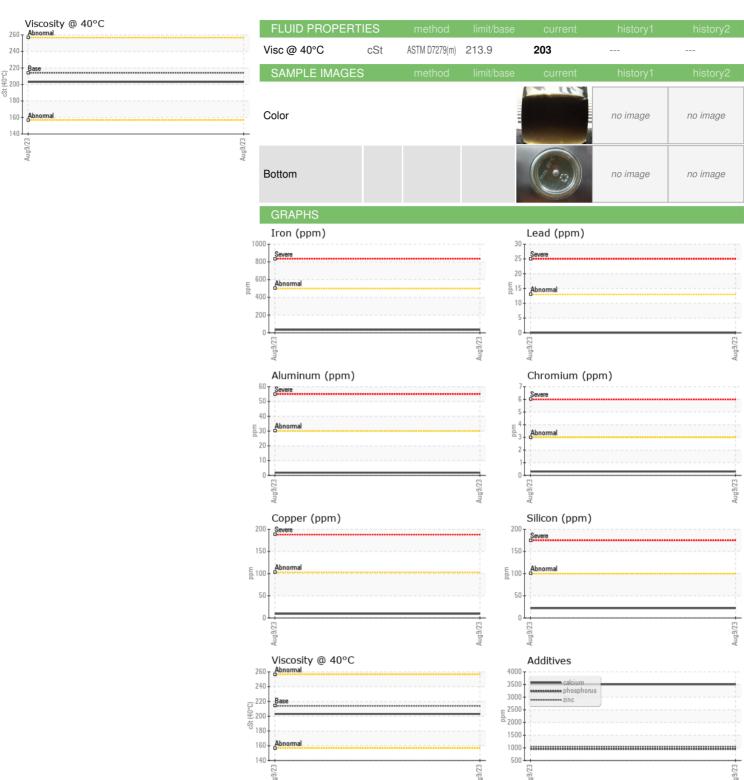
### **Fluid Condition**

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

SAMPLE INFORMATION   method   limit/base   current   history1   history   Sample Number   Client Info   09 Aug 2023	RO TO-4 SAE 50 (-	GAL)			Aug2023		
Client Info   O9 Aug 2023         Machine Age   hrs   Client Info   O	SAMPLE INFORM	MATION	method			history1	history2
Client Info   O9 Aug 2023	Sample Number		Client Info		WC0750489		
Machine Age   hrs   Client Info   0			Client Info		09 Aug 2023		
Oil Changed	•	hrs			•		
Client Info   Not Changd   Client Info   NoRMAL   Company   Comp		hrs	Client Info		0		
WEAR METALS	-				Not Changd		
Chromium	Sample Status						
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)	>500	34		
Silver	Chromium	ppm	ASTM D5185(m)	>3	<1		
Silver	Nickel	ppm	ASTM D5185(m)	>3	<1		
Aluminum	Titanium	ppm	ASTM D5185(m)	>2	0		
Lead	Silver	ppm	ASTM D5185(m)	>2	0		
Copper	Aluminum	ppm	ASTM D5185(m)	>30	2		
ASTM D5185(m)   STM	Lead		ASTM D5185(m)	>13	0		
Antimony	Copper		ASTM D5185(m)	>103	9		
Antimony	Tin		` '	>5	<1		
Vanadium         ppm         ASTM D5185(m)         0             Beryllium         ppm         ASTM D5185(m)         0             Cadmium         ppm         ASTM D5185(m)         0             ADDITIVES         method         limit/base         current         history1         history1           Boron         ppm         ASTM D5185(m)         0         0             Barium         ppm         ASTM D5185(m)         0         0             Molybdenum         ppm         ASTM D5185(m)         0         2             Manganese         ppm         ASTM D5185(m)         0         <-1             Magnesium         ppm         ASTM D5185(m)         9         16             Calcium         ppm         ASTM D5185(m)         3114         3507             Phosphorus         ppm         ASTM D5185(m)         1245         1052             Sulfur         ppm         ASTM D5185(m)         7086         11493 <th< td=""><td>Antimony</td><td></td><td>ASTM D5185(m)</td><td>&gt;5</td><td>0</td><td></td><td></td></th<>	Antimony		ASTM D5185(m)	>5	0		
Beryllium	•		. ,		0		
ADDITIVES			. ,		0		
Boron	•		,		-		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum         ppm         ASTM D5185(m)         0         2             Manganese         ppm         ASTM D5185(m)         0         <1	Boron	ppm	ASTM D5185(m)	2	2		
Manganese         ppm         ASTM D5185(m)         0         <1             Magnesium         ppm         ASTM D5185(m)         9         16             Calcium         ppm         ASTM D5185(m)         3114         3507             Phosphorus         ppm         ASTM D5185(m)         1099         954             Zinc         ppm         ASTM D5185(m)         1245         1052             Sulfur         ppm         ASTM D5185(m)         7086         11493             Lithium         ppm         ASTM D5185(m)         7086         11493             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185(m)         >100         22             Sodium         ppm         ASTM D5185(m)         >20         <1	Barium	ppm	ASTM D5185(m)	0	0		
Magnesium         ppm         ASTM D5185(m)         9         16             Calcium         ppm         ASTM D5185(m)         3114         3507             Phosphorus         ppm         ASTM D5185(m)         1099         954             Zinc         ppm         ASTM D5185(m)         1245         1052             Sulfur         ppm         ASTM D5185(m)         7086         11493             Lithium         ppm         ASTM D5185(m)         7086         11493             CONTAMINANTS         method         limit/base         current         history1         history1           Silicon         ppm         ASTM D5185(m)         >100         22             Sodium         ppm         ASTM D5185(m)         >20         <1	Molybdenum	ppm	ASTM D5185(m)	0	2		
Calcium         ppm         ASTM D5185(m)         3114         3507             Phosphorus         ppm         ASTM D5185(m)         1099         954             Zinc         ppm         ASTM D5185(m)         1245         1052             Sulfur         ppm         ASTM D5185(m)         7086         11493             Lithium         ppm         ASTM D5185(m)         <1	Manganese	ppm	ASTM D5185(m)	0	<1		
Calcium         ppm         ASTM D5185(m)         3114         3507             Phosphorus         ppm         ASTM D5185(m)         1099         954             Zinc         ppm         ASTM D5185(m)         1245         1052             Sulfur         ppm         ASTM D5185(m)         7086         11493             Lithium         ppm         ASTM D5185(m)         <1	Magnesium	ppm	ASTM D5185(m)	9	16		
Phosphorus	Calcium			3114	3507		
Zinc			` '				
Sulfur	•		` '	1245			
CONTAMINANTS			,		11493		
Silicon   ppm   ASTM D5185(m)   >100   22             Sodium   ppm   ASTM D5185(m)   0           Potassium   ppm   ASTM D5185(m)   >20   <1         VISUAL   method   limit/base   current   history1   history1     White Metal   scalar   Visual*   NONE   NONE         Yellow Metal   scalar   Visual*   NONE   NONE         Precipitate   scalar   Visual*   NONE   NONE         Silt   scalar   Visual*   NONE   NONE         Debris   scalar   Visual*   NONE   VLITE         Sand/Dirt   scalar   Visual*   NONE   NONE         Appearance   scalar   Visual*   NORML   NORML         Odor   scalar   Visual*   NORML   NORML         Emulsified Water   scalar   Visual*   >.2   NEG			. ,				
Sodium	CONTAMINANTS	;	method	limit/base	current	history1	history
Potassium         ppm         ASTM D5185(m)         >20         <1             VISUAL         method         limit/base         current         history1         history2           White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Precipitate         scalar         Visual*         NONE         NONE             Silt         scalar         Visual*         NONE         VLITE             Debris         scalar         Visual*         NONE         NONE             Sand/Dirt         scalar         Visual*         NORML         NORML             Appearance         scalar         Visual*         NORML         NORML             Codor         scalar         Visual*         >.2         NEG	Silicon	ppm	ASTM D5185(m)	>100	22		
VISUAL         method         limit/base         current         history1         history           White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Precipitate         scalar         Visual*         NONE         NONE             Silt         scalar         Visual*         NONE         NONE             Debris         scalar         Visual*         NONE         VLITE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Codor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >.2         NEG	Sodium	ppm	ASTM D5185(m)		0		
White Metal         scalar         Visual*         NONE         NONE             Yellow Metal         scalar         Visual*         NONE         NONE             Precipitate         scalar         Visual*         NONE         NONE             Silt         scalar         Visual*         NONE         NONE             Debris         scalar         Visual*         NONE         VLITE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Codor         scalar         Visual*         >.2         NEG	Potassium	ppm	ASTM D5185(m)	>20	<1		
Yellow Metal         scalar         Visual*         NONE         NONE             Precipitate         scalar         Visual*         NONE         NONE             Silt         scalar         Visual*         NONE         NONE             Debris         scalar         Visual*         NONE         VLITE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Codor         scalar         Visual*         >.2         NEG             Emulsified Water         scalar         Visual*         >.2         NEG	VISUAL		method	limit/base	current	history1	history
Precipitate         scalar         Visual*         NONE         NONE             Silt         scalar         Visual*         NONE         NONE             Debris         scalar         Visual*         NONE         VLITE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >.2         NEG	White Metal	scalar	Visual*	NONE	NONE		
Silt         scalar         Visual*         NONE         NONE             Debris         scalar         Visual*         NONE         VLITE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >.2         NEG	Yellow Metal	scalar	Visual*	NONE	NONE		
Debris         scalar         Visual*         NONE         VLITE             Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >.2         NEG	Precipitate	scalar	Visual*	NONE	NONE		
Sand/Dirt         scalar         Visual*         NONE         NONE             Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >.2         NEG	Silt	scalar	Visual*	NONE	NONE		
Appearance         scalar         Visual*         NORML         NORML             Odor         scalar         Visual*         NORML         NORML             Emulsified Water         scalar         Visual*         >.2         NEG	Debris	scalar	Visual*	NONE	VLITE		
Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >.2 NEG	Sand/Dirt	scalar	Visual*	NONE	NONE		
Emulsified Water scalar Visual* >.2 NEG	Appearance	scalar	Visual*	NORML	NORML		
	Odor	scalar	Visual*	NORML	NORML		
Free Water scalar Visual* NEG	Emulsified Water	scalar	Visual*		NEG		
	Free Water	scalar	Visual*		NEG		



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** 

: WC0750489 : 02575455 : 5620506 Test Package : MOB 1

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

: Wes Davis Diagnostician

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX

Kirkland Lake, ON **CA P2N 3J1** 

Contact: Mitch Lamontagne

AEM\_KL\_macassaoilsampleresults@agnicoeagle.com T: (705)567-5208

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.

F: (705)567-5221