

OIL ANALYSIS REPORT

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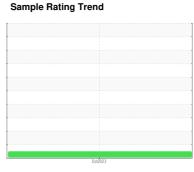
NORMAL



CATERPILLAR R1600H SCP222

Component
Front Left Planetary
Fluid

PETRO CANADA PRODURO TO-4 SAE 50 (--- 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

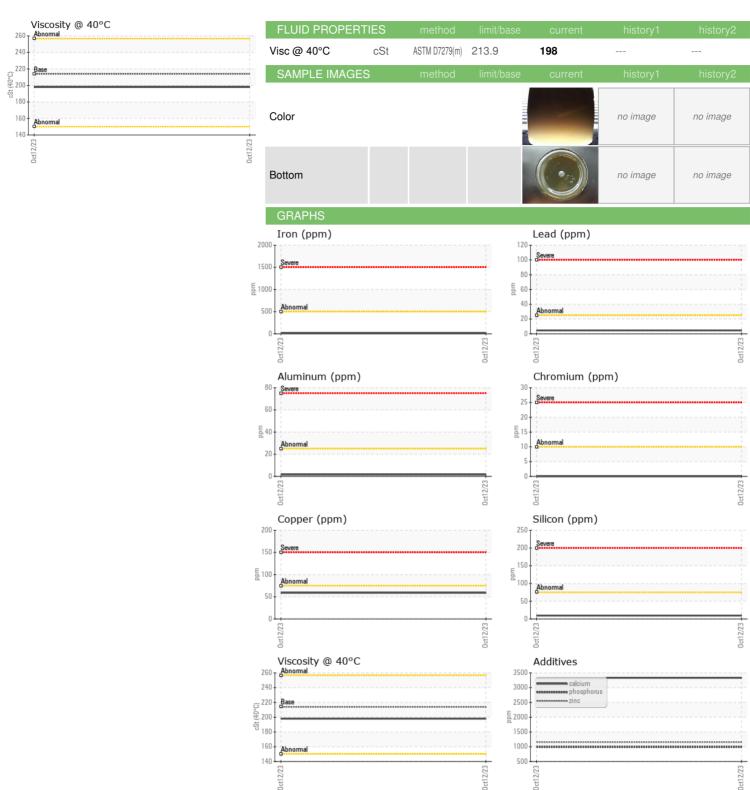
Fluid Condition

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

Sample Number Client Info WC0865524	10 10-4 3AL 30 (- GAL)	1		Oct2023		
Client Info 12 Oct 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history
Machine Age hrs Client Info 260	Sample Number		Client Info		WC0865524		
Dil Age	Sample Date		Client Info		12 Oct 2023		
Client Info Not Changd Client Info NoRMAL Company Comp	Machine Age	hrs	Client Info		260		
Cilient Info Not Changd Sample Status NormAL Sample Status Sam	Oil Age	hrs	Client Info		260		
WEAR METALS	-		Client Info		Not Changd		
Chromium	-				NORMAL		
Chromium	WEAR METALS		method	limit/base	current	history1	history
Nickel	ron	ppm	ASTM D5185(m)	>500	14		
Description	Chromium	ppm	ASTM D5185(m)	>10	0		
Silver	Nickel	ppm	ASTM D5185(m)	>10	<1		
Silver	Titanium	ppm	ASTM D5185(m)		0		
ASTM D5185(m) >25 2	Silver		ASTM D5185(m)		<1		
Lead	Aluminum		. ,	>25	2		
Copper					5		
Antimony			. ,				
Antimony			. ,				
Vanadium			. ,				
Beryllium	•			70	-		
ADDITIVES			. ,				
ADDITIVES	•				-		
Boron ppm ASTM D5185(m) 2 7	ADDITIVES	''		limit/hase	current	history1	history
Sarium		nnm				,	,
Molybdenum ppm ASTM D5185(m) 0 0 Manganese ppm ASTM D5185(m) 0 0 Magnesium ppm ASTM D5185(m) 9 11 Calcium ppm ASTM D5185(m) 1099 991 Phosphorus ppm ASTM D5185(m) 1099 991 Zinc ppm ASTM D5185(m) 1245 1157 Sulfur ppm ASTM D5185(m) 7086 8130 Sulfur ppm ASTM D5185(m) >75 10 Lithium ppm ASTM D5185(m) 3 Solicon ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) 3 Potassium ppm ASTM D5185(m) 3			. ,				
Manganese ppm ASTM D5185(m) 0 Magnesium ppm ASTM D5185(m) 9 11 Calcium ppm ASTM D5185(m) 3114 3331 Phosphorus ppm ASTM D5185(m) 1099 991 Zinc ppm ASTM D5185(m) 1245 1157 Sulfur ppm ASTM D5185(m) 7086 8130 Lithium ppm ASTM D5185(m) 7086 8130 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185(m) >75 10 Sodium ppm ASTM D5185(m) >20 <1			, ,		_		
Magnesium ppm ASTM D5185(m) 9 11 Calcium ppm ASTM D5185(m) 3114 3331 Phosphorus ppm ASTM D5185(m) 1099 991 Zinc ppm ASTM D5185(m) 1245 1157 Sulfur ppm ASTM D5185(m) 7086 8130 Lithium ppm ASTM D5185(m) 7086 8130 CONTAMINANTS method limit/base current history1 history1 Silicon ppm ASTM D5185(m) >75 10 Sodium ppm ASTM D5185(m) >20 <1	•						
Calcium ppm ASTM D5185(m) 3114 3331 Phosphorus ppm ASTM D5185(m) 1099 991 Zinc ppm ASTM D5185(m) 1245 1157 Sulfur ppm ASTM D5185(m) 7086 8130 Lithium ppm ASTM D5185(m) <1	•		\ /		-		
Phosphorus	J						
Zinc							
Sulfur	·						
CONTAMINANTS			. ,				
CONTAMINANTS		ppm		7086			
Solition ppm ASTM D5185(m) >75 10			ASTM D5185(m)		<1		
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 Emulsified Water scalar Visual* >0.2 NEG		ppm	()	>75			
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 NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Dodor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG		ppm			3		
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* NORML NORML Appearance scalar Visual* NORML NORML Codor scalar Visual* >0.2 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* >0.2 NEG Emulsified Water scalar Visual* >0.2 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 Ddor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 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* >0.2 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* >0.2 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* >0.2 NEG	Silt	scalar	Visual*	NONE	NONE		
Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG	Debris	scalar	Visual*	NONE	VLITE		
Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG	Sand/Dirt	scalar	Visual*	NONE			
Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG	_						
Emulsified Water scalar Visual* >0.2 NEG							
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OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

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

: WC0865524 : 02592198 : 5669277 Test Package : MOB 1

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 26 Oct 2023 Diagnosed : 26 Oct 2023

Diagnostician : Wes Davis

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX

Kirkland Lake, ON CA P2N 3J1

F: (705)567-5221

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.