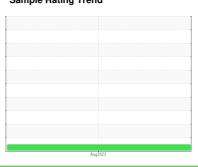


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



EPIROC ST18 SCP203

Component

Front Left Planetary

PENNZOIL 75W140 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Moor

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

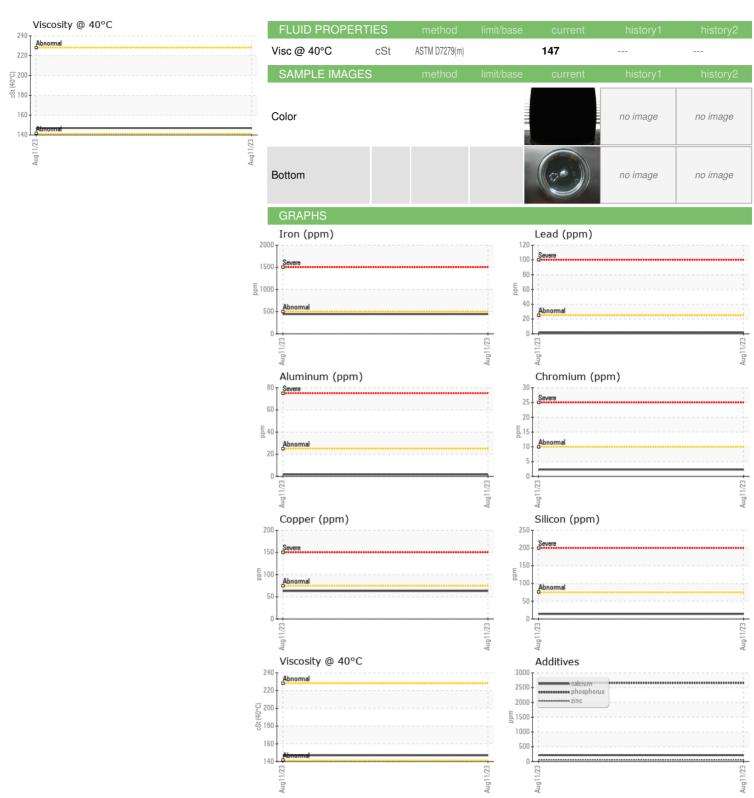
Fluid Condition

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

SAMPLE INFORMATION method limit/base current history1 history2							
Sample Number Client Info WC0848079 Client Info Changed Client Info Client I					Aug2023		
Sample Date	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 11 Aug 2023	Sample Number		Client Info		WC0848079		
Machine Age			Client Info		11 Aug 2023		
Oil Age hrs Client Info Changed	•	hrs			-		
Oil Changed Sample Status Client Info NORMAL Changed NORMAL	<u> </u>						
NORMAL Sample Status Method Imilibase Current Mistory1 Mistory2	-		Client Info		Changed		
Iron	-				_		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Nickel	Iron	ppm	ASTM D5185(m)	>500	444		
Nickel	Chromium		ASTM D5185(m)	>10	2		
Titanium	Nickel		ASTM D5185(m)	>10	1		
Silver ppm ASTM D5185(m) 0 Aluminum ppm ASTM D5185(m) >225 2 Lead ppm ASTM D5185(m) >25 2 Copper ppm ASTM D5185(m) >75 63 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 method limil/base current history1 history2 Boron ppm ASTM D5185(m) 17 Barium ppm ASTM D5185(m) 2 Magnesium ppm	Titanium		ASTM D5185(m)		<1		
Aluminum	Silver		. ,		0		
Lead ppm ASTM D5185(m) >25 2 Copper ppm ASTM D5185(m) >75 63 Tin ppm ASTM D5185(m) >10 3 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 method limil/base current history1 history2 Boron ppm ASTM D5185(m) 2 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 2 Mangaesiem ppm ASTM D5185(m) 2 Magnesium ppm ASTM D518	Aluminum			>25	2		
Copper	Lead		,		2		
Tin ppm ASTM D5185(m) >10 3 Antimony ppm ASTM D5185(m) >5 0 Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limil/base current history1 history2 Boron ppm ASTM D5185(m) 1 Boron ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 10 Magnesium ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 2 24 Calcium ppm ASTM D5185(m) 2660 Phosphorus ppm AST	Copper		()	>75	63		
Antimony			,	>10	3		
Vanadium ppm ASTM D5185(m) 0 Beryllium ppm ASTM D5185(m) 0 Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 17 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 10 Magnese ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 214 Phosphorus ppm ASTM D5185(m) 258 Sulfur ppm ASTM D5185(m) 23359 Sulfur ppm ASTM D5185(m) >75 14 <td>Antimony</td> <td></td> <td>, ,</td> <td>>5</td> <td>0</td> <td></td> <td></td>	Antimony		, ,	>5	0		
Beryllium	•		1 /		0		
Cadmium ppm ASTM D5185(m) 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 17 Barium ppm ASTM D5185(m) 2 Molybdenum ppm ASTM D5185(m) 10 Magnesium ppm ASTM D5185(m) 2 Magnesium ppm ASTM D5185(m) 2660 Phosphorus ppm ASTM D5185(m) 2660 Phosphorus ppm ASTM D5185(m) 2660 Sulfur ppm ASTM D5185(m) 23359 Lithium ppm ASTM D5185(m) 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) <td< td=""><td>Bervllium</td><td></td><td>. ,</td><td></td><td>0</td><td></td><td></td></td<>	Bervllium		. ,		0		
Boron	•		()		0		
Barium	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 10 Manganese ppm ASTM D5185(m) 8 Magnesium ppm ASTM D5185(m) 2 Calcium ppm ASTM D5185(m) 2660 Phosphorus ppm ASTM D5185(m) 23359 Sulfur ppm ASTM D5185(m) 23359 Sulfur ppm ASTM D5185(m) 1 Lithium ppm ASTM D5185(m) >75 14 Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) >20 2 Potassium ppm ASTM D5185(m) >20 2 VISUAL method limit/base current history1 history2 White Metal	Boron	ppm	ASTM D5185(m)		17		
Manganese ppm ASTM D5185(m) 8 Magnesium ppm ASTM D5185(m) 2 Calcium ppm ASTM D5185(m) 2660 Phosphorus ppm ASTM D5185(m) 2660 Zinc ppm ASTM D5185(m) 58 Sulfur ppm ASTM D5185(m) 23359 Lithium ppm ASTM D5185(m) 1 Lithium ppm ASTM D5185(m) >75 14 Lithium ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) >20 2 Potassium ppm ASTM D5185(m) >20 2 VISUAL method limit/base current history1 history2 White Metal	Barium	ppm	ASTM D5185(m)		2		
Magnesium ppm ASTM D5185(m) 2 Calcium ppm ASTM D5185(m) 214 Phosphorus ppm ASTM D5185(m) 2660 Zinc ppm ASTM D5185(m) 58 Sulfur ppm ASTM D5185(m) 23359 Lithium ppm ASTM D5185(m) 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) >20 2 VISUAL method limit/base current history1 history2 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE <	Molybdenum	ppm	ASTM D5185(m)		10		
Calcium ppm ASTM D5185(m) 214 Phosphorus ppm ASTM D5185(m) 2660 Zinc ppm ASTM D5185(m) 58 Sulfur ppm ASTM D5185(m) 23359 Lithium ppm ASTM D5185(m) 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) >20 2 Potassium ppm ASTM D5185(m) >20 2 VISUAL method limit/base current history1 history2 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE <td>Manganese</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td></td> <td>8</td> <td></td> <td></td>	Manganese	ppm	ASTM D5185(m)		8		
Phosphorus ppm ASTM D5185(m) 2660 Zinc ppm ASTM D5185(m) 58 Sulfur ppm ASTM D5185(m) 23359 Lithium ppm ASTM D5185(m) 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) >20 2 Potassium ppm ASTM D5185(m) >20 2 VISUAL method limit/base current history1 history2 VISUAL method limit/base current history1 history2 White Metal scalar Visual* NONE NONE Yellow Metal scalar Visual* NONE NONE	Magnesium	ppm	ASTM D5185(m)		2		
Zinc	Calcium	ppm	ASTM D5185(m)		214		
Sulfur ppm ASTM D5185(m) 23359 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) 6 Potassium ppm ASTM D5185(m) >20 2 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 NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORML	Phosphorus	ppm	ASTM D5185(m)		2660		
Lithium ppm ASTM D5185(m) 1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) 6 Potassium ppm ASTM D5185(m) >20 2 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 NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORML NORML	Zinc	ppm	ASTM D5185(m)		58		
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) 6 Potassium ppm ASTM D5185(m) >20 2 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 NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORML NORML Appearance scalar <t< td=""><td>Sulfur</td><td>ppm</td><td>ASTM D5185(m)</td><td></td><td>23359</td><td></td><td></td></t<>	Sulfur	ppm	ASTM D5185(m)		23359		
Silicon ppm ASTM D5185(m) >75 14 Sodium ppm ASTM D5185(m) 6 Potassium ppm ASTM D5185(m) >20 2 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 NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORM NORML Appearance scalar Visual* NORML NORML Godor scalar <t< td=""><td>Lithium</td><td>ppm</td><td>ASTM D5185(m)</td><td></td><td>1</td><td></td><td></td></t<>	Lithium	ppm	ASTM D5185(m)		1		
Sodium ppm ASTM D5185(m) 6 Potassium ppm ASTM D5185(m) >20 2 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 NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NORML Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* </td <td>CONTAMINANTS</td> <td></td> <td>method</td> <td>limit/base</td> <td>current</td> <td>history1</td> <td>history2</td>	CONTAMINANTS		method	limit/base	current	history1	history2
Sodium ppm ASTM D5185(m) 6 Potassium ppm ASTM D5185(m) >20 2 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 NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NONE NONE Appearance scalar Visual* NORML NORML Odor scalar Visual* >0.2 NEG	Silicon	ppm		>75	14		
Potassium ppm ASTM D5185(m) >20 2 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 NONE Debris scalar Visual* NONE NONE Sand/Dirt scalar Visual* NORML NORML Appearance scalar Visual* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG	Sodium	• •			6		
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* NORML NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG	Potassium		ASTM D5185(m)	>20	2		
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* NORML NORML Codor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG	VISUAL		method	limit/base	current	history1	history2
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* NORML NORML Codor 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 NONE 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		Visual*		NONE		
Silt scalar Visual* NONE NONE Debris 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	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	•	scalar	Visual*	NONE	NONE		
Appearance scalar Visual* NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG	Debris	scalar	Visual*	NONE	NONE		
Appearance scalar Visual* NORML Odor scalar Visual* NORML NORML Emulsified Water scalar Visual* >0.2 NEG				NONE			
Odor scalar Visual* NORML NORML	Appearance				NORML		
Emulsified Water scalar Visual* >0.2 NEG				NORML			



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited Laboratory

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

: WC0848079

: 02576210 : 5629270 Test Package : MOB 1

To discuss this sample report, contact Customer Service at 1-800-268-2131.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 16 Aug 2023

: 16 Aug 2023 Diagnosed Diagnostician : Wes Davis

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

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