

OIL ANALYSIS REPORT

Sample Rating Trend **WEAR**

ARTISAN 240 TRK216 (S/N VZ-02-0002)

Front Right Planetary

SAE 80W90 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check for visible metal particles in the oil. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

PQ levels are abnormal. Iron ppm levels are abnormal. Light concentration of visible metal present. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within SAE 80W140 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

		Nov2019	Jun2020 Aug2020	Feb2021 Mar2021 Apr2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0749523	WC0835126	WC0558361
Sample Date		Client Info		05 Jul 2023	05 Apr 2023	16 Mar 2021
Machine Age	hrs	Client Info		7560	8056	5515
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		1559	0	419
Iron	ppm	ASTM D5185(m)	>500	986	<u>1421</u>	<u></u> 576
Chromium	ppm	ASTM D5185(m)	>10	8	<u> </u>	4
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>25	<1	2	2
Lead	ppm	ASTM D5185(m)		0	0	0
Copper	ppm	ASTM D5185(m)	>75	1	3	2
Tin	ppm	ASTM D5185(m)		0	0	0
Antimony	ppm	ASTM D5185(m)	>5	<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
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ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	200	47	89	63
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<1	1	<1
Manganese	ppm	ASTM D5185(m)		12	16	7
Magnesium	ppm	ASTM D5185(m)	0	<1	2	<1
Calcium	ppm	ASTM D5185(m)	20	5	45	10
Phosphorus	ppm	ASTM D5185(m)	1000	500	502	530
Zinc	ppm	ASTM D5185(m)	20	7	16	10
Sulfur	ppm	ASTM D5185(m)	22000	14093	8654	9788
Lithium	ppm	ASTM D5185(m)		1	1	2
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>75	7	10	12
Sodium	ppm	ASTM D5185(m)	>50	<1	2	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	▲ LTMOD	HEAVY	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
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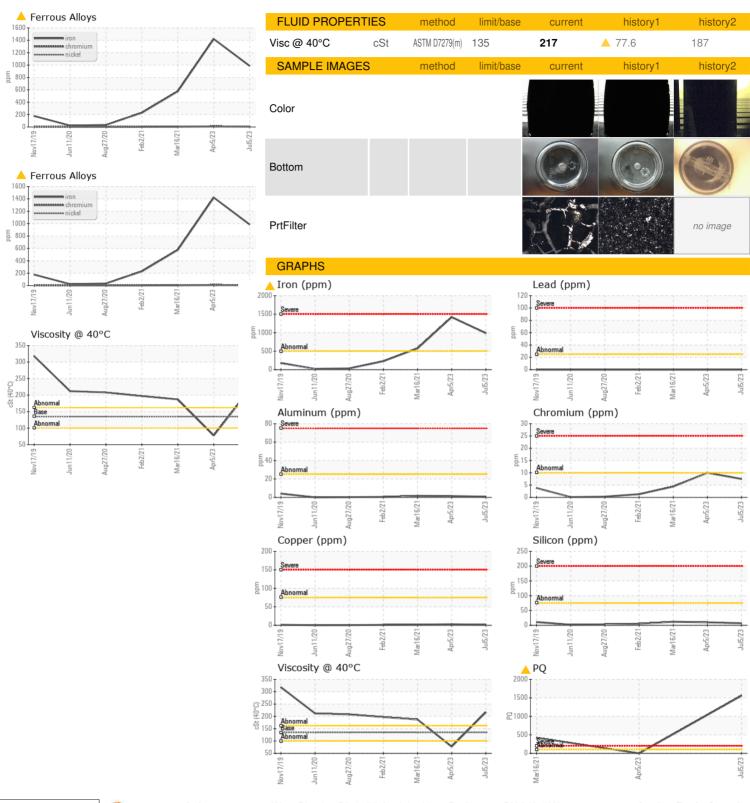
scalar Visual*

pcation: Jay Gould - KHB370KIR

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OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

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

: WC0749523 : 02578194 : 5631254

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

: 24 Aug 2023 : 25 Aug 2023 Diagnostician : Kevin Marson

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX Kirkland Lake, ON

Test Package : MOB 1 (Additional Tests: Bottom, BottomAnalysis, FilterPatch, PQ) Contact: Jay Gould

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.

MacassaMobileUGPlanning@agnicoeagle.com T: (705)567-5208

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

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CA P2N 3J1