



Machine Id  
**COVINGTON**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON MEROPA 320 (--- GAL)**

**RECOMMENDATION**

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0069923</b>	MW0069919	MW0069950
Sample Date		Client Info		<b>01 Jul 2024</b>	01 Jun 2024	01 May 2024
Machine Age	hrs	Client Info		<b>5909</b>	5361	4830
Oil Age	hrs	Client Info		<b>5909</b>	0	4830
Filter Age	hrs	Client Info		<b>500</b>	5361	500
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Changed</b>	None	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>150	<b>▲ 511</b>	▲ 578	▲ 329
Chromium	ppm	ASTM D5185m	>10	<b>6</b>	7	4
Nickel	ppm	ASTM D5185m	>10	<b>7</b>	8	6
Titanium	ppm	ASTM D5185m		<b>2</b>	3	2
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Aluminum	ppm	ASTM D5185m	>25	<b>11</b>	13	8
Lead	ppm	ASTM D5185m	>100	<b>2</b>	2	2
Copper	ppm	ASTM D5185m	>50	<b>9</b>	9	8
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

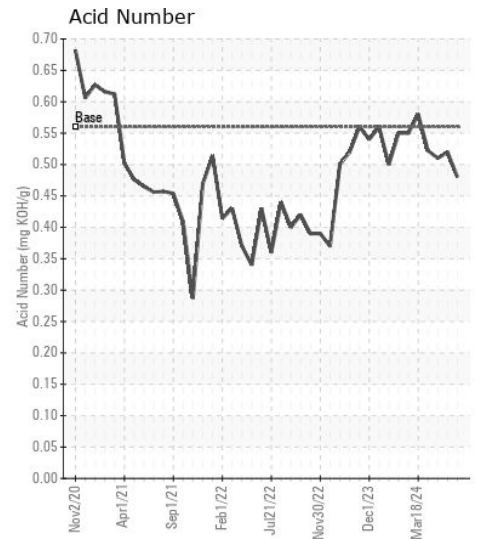
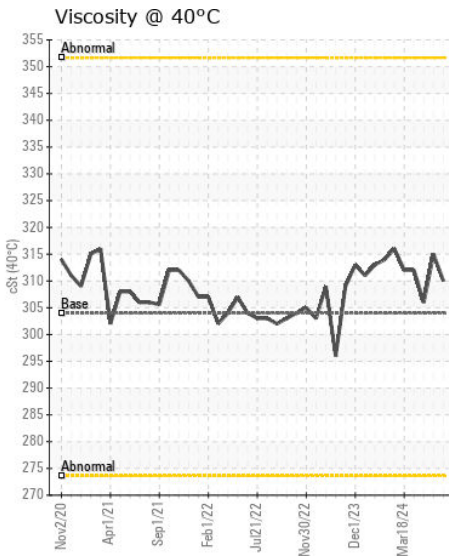
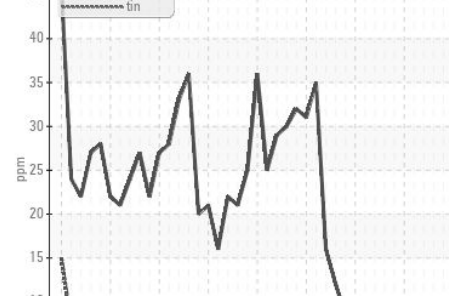
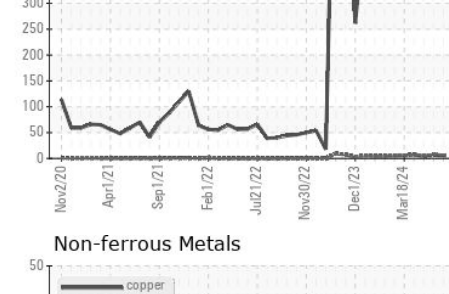
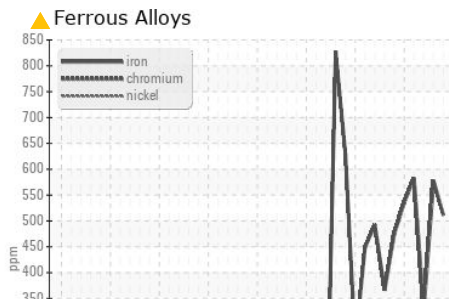
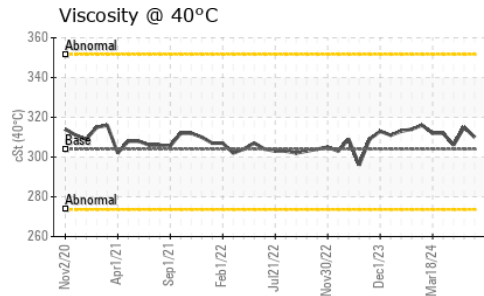
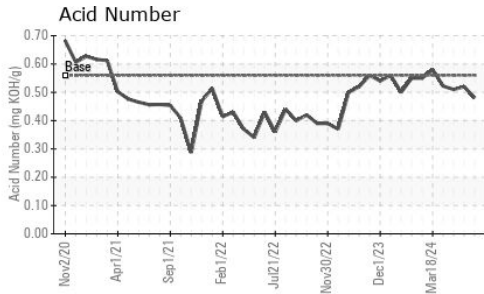
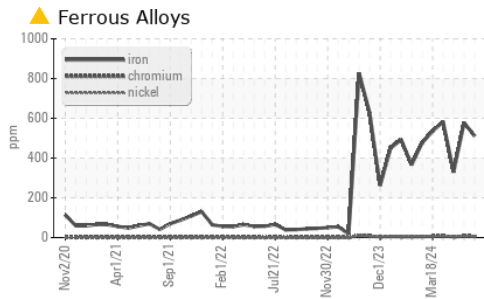
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>12</b>	14	11
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<b>0</b>	3	<1
Boron	ppm	ASTM D5185m	20	<b>21</b>	22	21
Barium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	2	2
Manganese	ppm	ASTM D5185m		<b>4</b>	5	4
Magnesium	ppm	ASTM D5185m		<b>9</b>	11	9
Calcium	ppm	ASTM D5185m	25	<b>30</b>	41	38
Phosphorus	ppm	ASTM D5185m	235	<b>243</b>	236	261
Zinc	ppm	ASTM D5185m		<b>19</b>	22	19
Sulfur	ppm	ASTM D5185m		<b>6017</b>	7555	7723
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	<b>0.48</b>	0.52	0.51
Visc @ 40°C	cSt	ASTM D445	304	<b>310</b>	315	306



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0069923  
**Lab Number** : 06233999  
**Unique Number** : 11122833  
**Test Package** : MAR 2

**Received** : 11 Jul 2024  
**Tested** : 12 Jul 2024  
**Diagnosed** : 13 Jul 2024 - Don Baldrige

**C & B MARINE**  
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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)