



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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		MW0062682	MW0062676	MW0057052
Sample Date		Client Info		04 Apr 2024	18 Mar 2024	01 Mar 2024
Machine Age	hrs	Client Info		4192	3939	3555
Oil Age	hrs	Client Info		4192	2166	3555
Filter Age	hrs	Client Info		1000	0	21
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	N/A	Not Changed
Sample Status				ABNORMAL	ABNORMAL	SEVERE

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>150	▲ 583	▲ 535	▲ 476
Chromium	ppm	ASTM D5185m	>10	7	6	5
Nickel	ppm	ASTM D5185m	>10	7	6	6
Titanium	ppm	ASTM D5185m		3	2	3
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	14	12	12
Lead	ppm	ASTM D5185m	>100	3	1	2
Copper	ppm	ASTM D5185m	>50	8	7	8
Tin	ppm	ASTM D5185m	>10	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

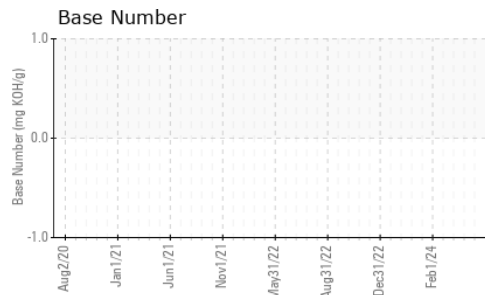
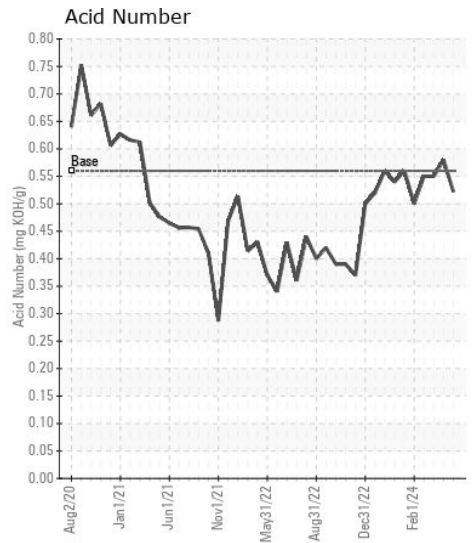
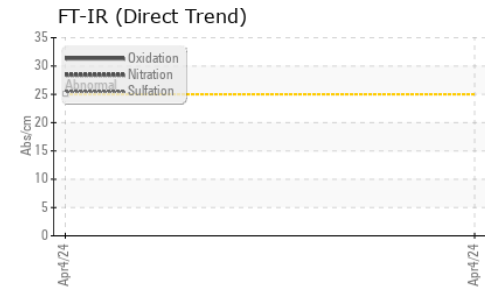
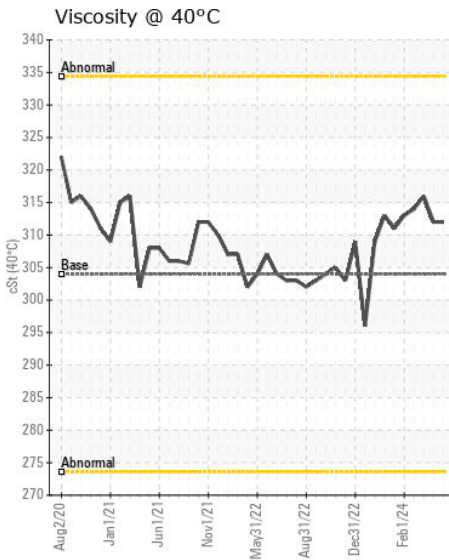
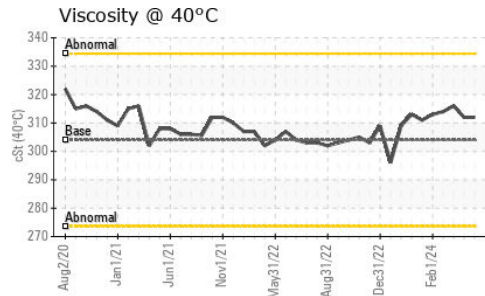
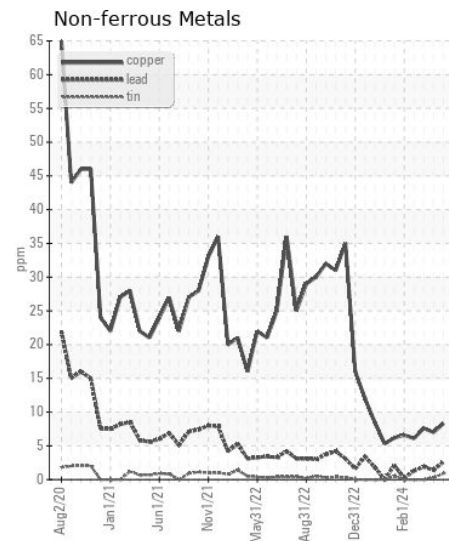
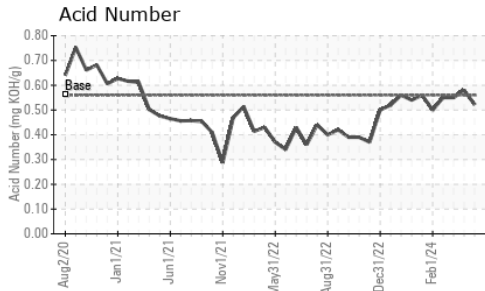
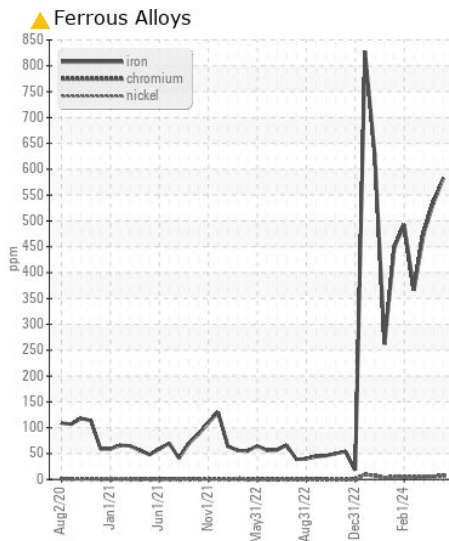
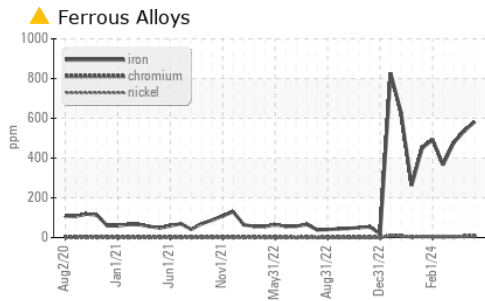
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	15	14	13
Potassium	ppm	ASTM D5185m	>20	2	1	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	3	0
Boron	ppm	ASTM D5185m	20	28	23	27
Barium	ppm	ASTM D5185m		1	<1	<1
Molybdenum	ppm	ASTM D5185m	0	4	<1	1
Manganese	ppm	ASTM D5185m		6	5	4
Magnesium	ppm	ASTM D5185m		36	11	9
Calcium	ppm	ASTM D5185m	25	69	39	32
Phosphorus	ppm	ASTM D5185m	235	302	251	240
Zinc	ppm	ASTM D5185m		48	13	15
Sulfur	ppm	ASTM D5185m		8382	7763	7300
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	0.522	0.58	0.55
Visc @ 40°C	cSt	ASTM D445	304	312	312	316



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0062682
Lab Number : 06152550
Unique Number : 10982628
Test Package : MAR 2 (Additional Tests: FT-IR, KV100, TBN)

Received : 17 Apr 2024
Tested : 23 Apr 2024
Diagnosed : 23 Apr 2024 - Jonathan Hester

C & B MARINE
 50 E RIVERCENTER BLVD, SUITE 1180
 COVINGTON, KY
 US 41011

Contact: DAVID WESTRICH
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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)

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