



WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0057009	MW0057006	MW0045717
Sample Date		Client Info		01 Jan 2024	01 Dec 2023	16 Aug 2023
Machine Age	hrs	Client Info		2279	1916	1368
Oil Age	hrs	Client Info		506	1916	1368
Filter Age	hrs	Client Info		548	0	1368
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				SEVERE	ABNORMAL	SEVERE

WEAR

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>150	449	262	628
Chromium	ppm	ASTM D5185m	>10	5	3	7
Nickel	ppm	ASTM D5185m	>10	6	3	7
Titanium	ppm	ASTM D5185m		3	2	3
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	10	8	20
Lead	ppm	ASTM D5185m	>100	2	0	2
Copper	ppm	ASTM D5185m	>50	6	5	8
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

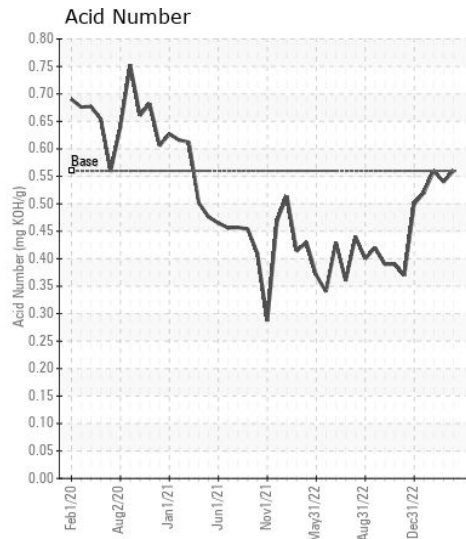
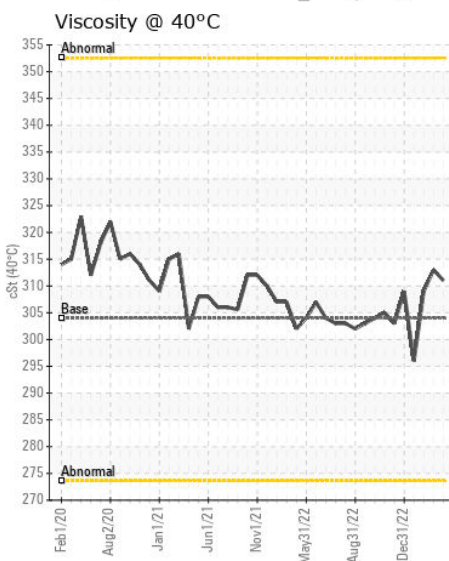
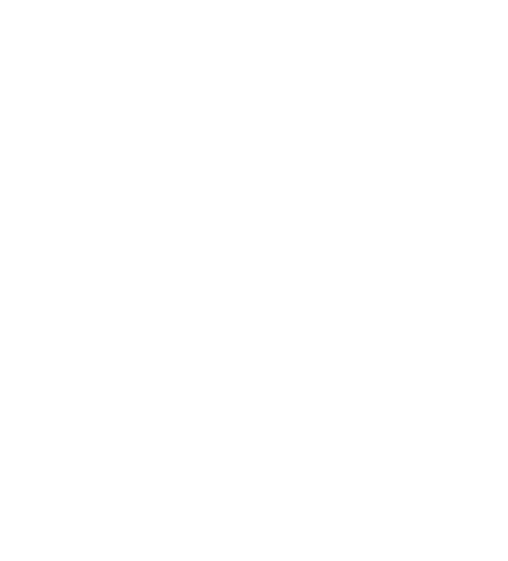
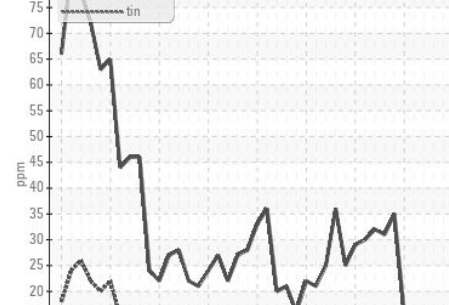
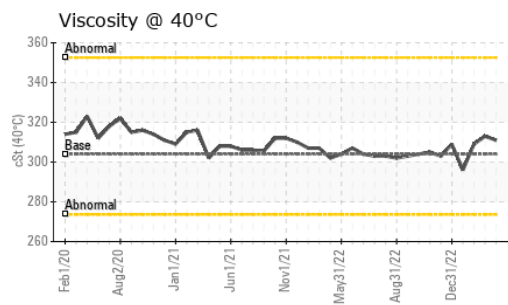
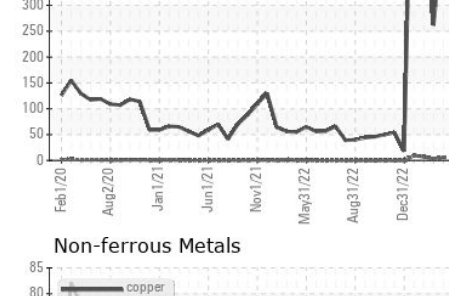
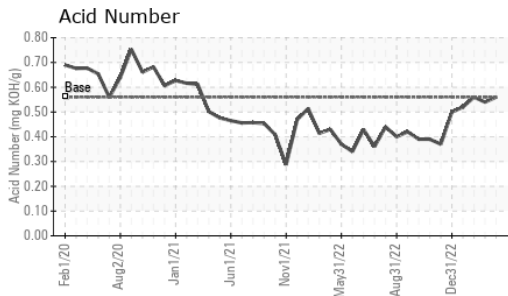
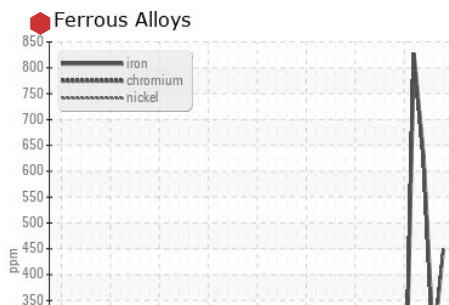
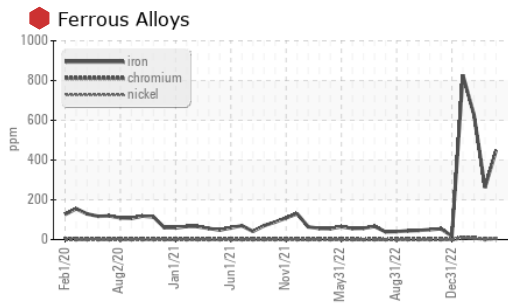
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	13	9	17
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	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		0	4	3
Boron	ppm	ASTM D5185m	20	25	24	22
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	0	2	0	2
Manganese	ppm	ASTM D5185m		5	3	6
Magnesium	ppm	ASTM D5185m		10	7	23
Calcium	ppm	ASTM D5185m	25	37	39	63
Phosphorus	ppm	ASTM D5185m	235	246	233	264
Zinc	ppm	ASTM D5185m		4	0	34
Sulfur	ppm	ASTM D5185m		7815	6667	8349
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	0.56	0.54	0.56
Visc @ 40°C	cSt	ASTM D445	304	311	313	309



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0057009 **Received** : 08 Jan 2024
Lab Number : 06054991 **Diagnosed** : 10 Jan 2024
Unique Number : 10820940 **Diagnostician** : Angela Borella
Test Package : MAR 2

C & B MARINE
 50 E RIVERCENTER BLVD, SUITE 1180
 COVINGTON, KY
 US 41011
 Contact: DAVID WESTRICH
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Certificate L2367
 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)