



A Y2K Fluid Power Brand

# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**80003051 (S/N 4229590)**  
 Component  
**Front Planetary**  
 Fluid  
**CHEVRON MEROPA 220 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>Y2K0001712</b>	---	---
Sample Date		Client Info		<b>02 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>0</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	---	---
Lead	ppm	ASTM D5185m	>100	<b>0</b>	---	---
Copper	ppm	ASTM D5185m	>50	<b>0</b>	---	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

## CONTAMINATION

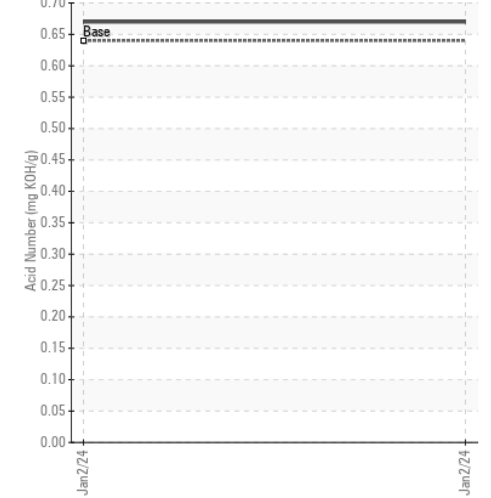
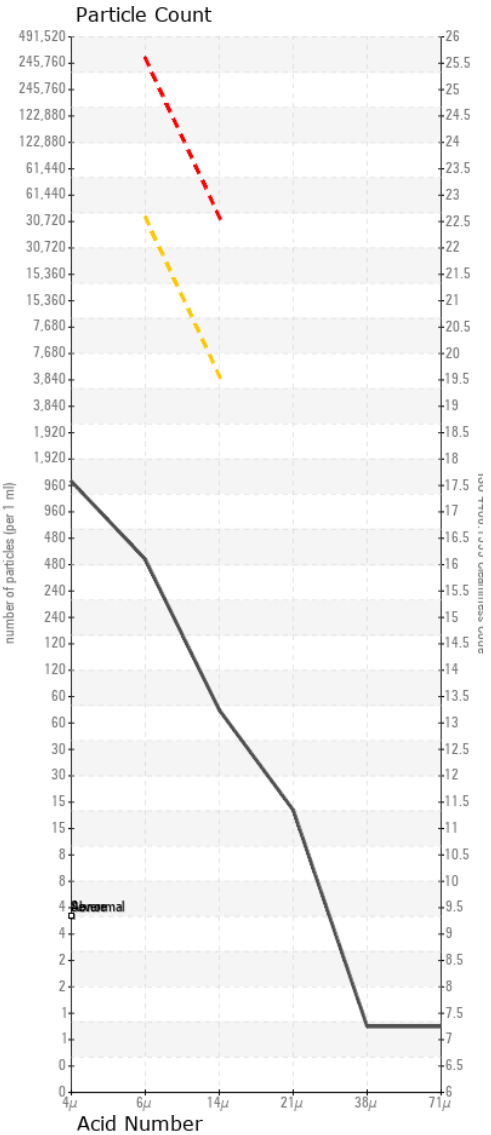
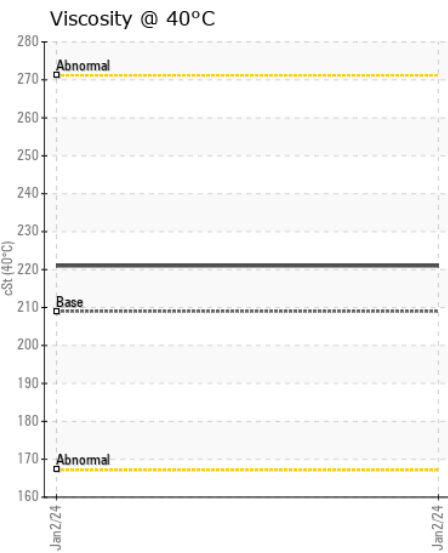
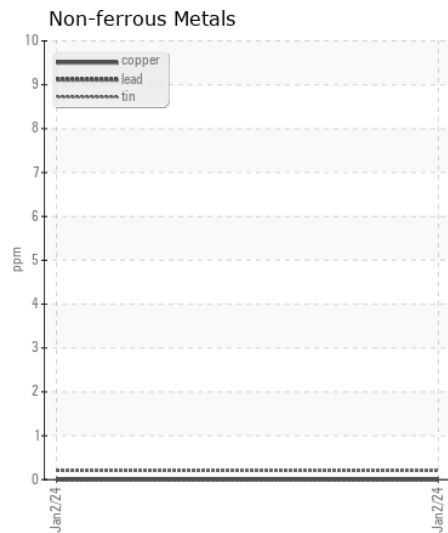
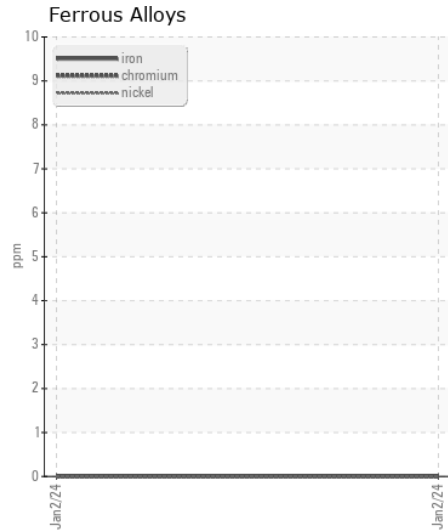
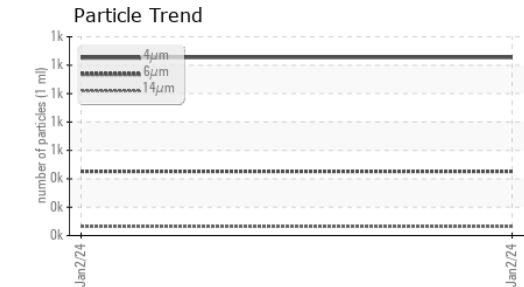
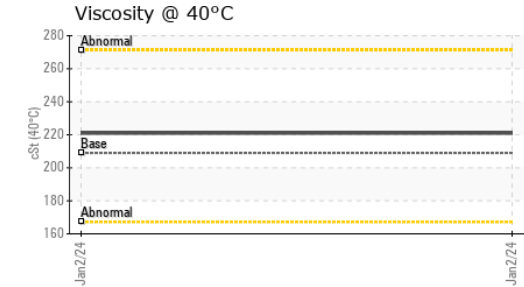
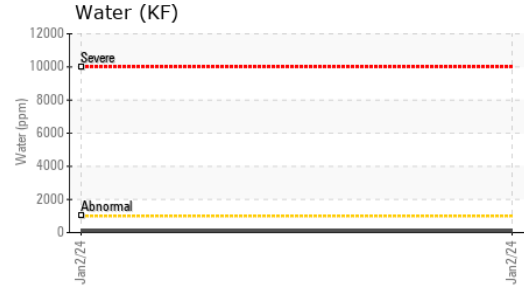
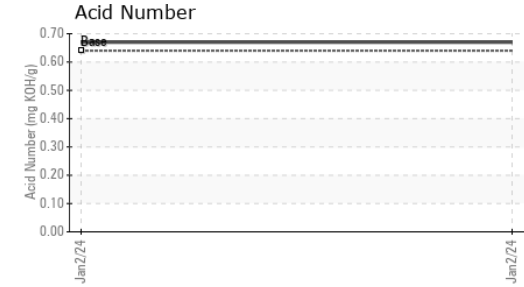
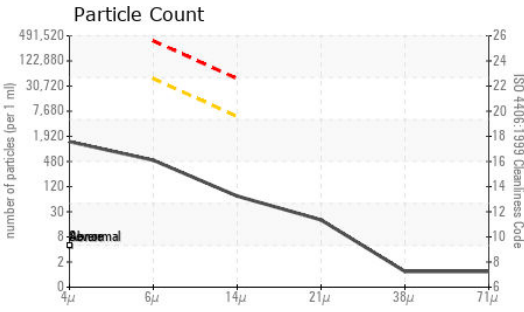
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>50	<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Water	%	ASTM D6304	>0.1	<b>0.010</b>	---	---
ppm Water	ppm	ASTM D6304	>1000	<b>108</b>	---	---
Particles >4µm		ASTM D7647		<b>1255</b>	---	---
Particles >6µm		ASTM D7647	>40000	<b>452</b>	---	---
Particles >14µm		ASTM D7647	>5000	<b>63</b>	---	---
Particles >21µm		ASTM D7647	>1300	<b>17</b>	---	---
Particles >38µm		ASTM D7647	>320	<b>1</b>	---	---
Particles >71µm		ASTM D7647	>80	<b>1</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>22/19	<b>16/13</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	---	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	---	---
Boron	ppm	ASTM D5185m	40	<b>32</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	---	---
Calcium	ppm	ASTM D5185m		<b>5</b>	---	---
Phosphorus	ppm	ASTM D5185m	270	<b>241</b>	---	---
Zinc	ppm	ASTM D5185m		<b>0</b>	---	---
Sulfur	ppm	ASTM D5185m	8600	<b>7343</b>	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.64	<b>0.67</b>	---	---
Visc @ 40°C	cSt	ASTM D445	209	<b>221</b>	---	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : Y2K0001712 **Received** : 10 Jan 2024  
**Lab Number** : 06056643 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10822592 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: KF, PrtCount )

**CARPENTER COMPANY**  
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 F:

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)