



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

Area  
**DALE A HELLER**  
Machine Id  
**[DALE A HELLER] 004 624201-4**  
Component  
**Port Reduction Gear**  
Fluid  
**CHEVRON MEROPA 320 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0049574</b>	MW06186367	MW0064833
Sample Date		Client Info		<b>01 Jun 2024</b>	01 May 2024	01 Apr 2024
Machine Age	hrs	Client Info		<b>75155</b>	74409	73704
Oil Age	hrs	Client Info		<b>7942</b>	74409	6491
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>70</b>	38	72
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>3</b>	2	4
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	2	1
Lead	ppm	ASTM D5185m	>100	<b>1</b>	<1	2
Copper	ppm	ASTM D5185m	>50	<b>4</b>	4	4
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

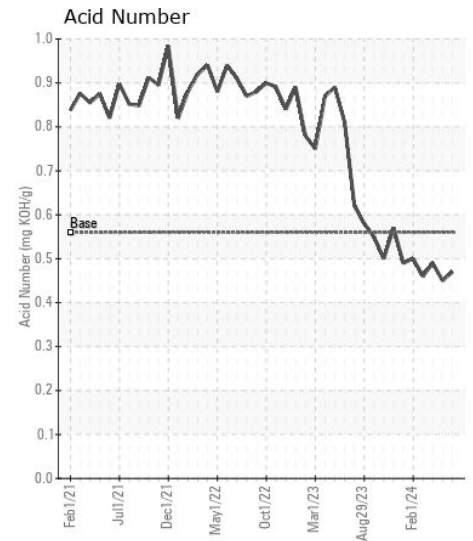
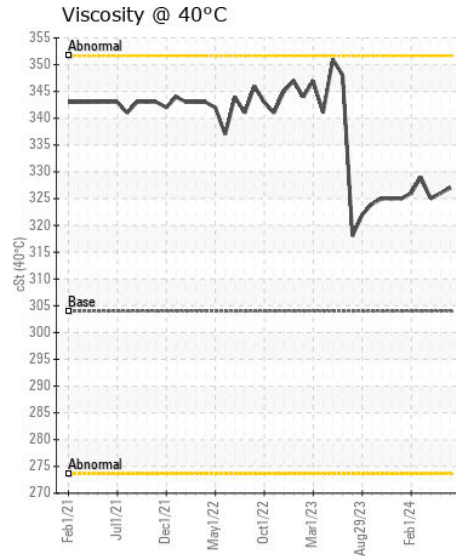
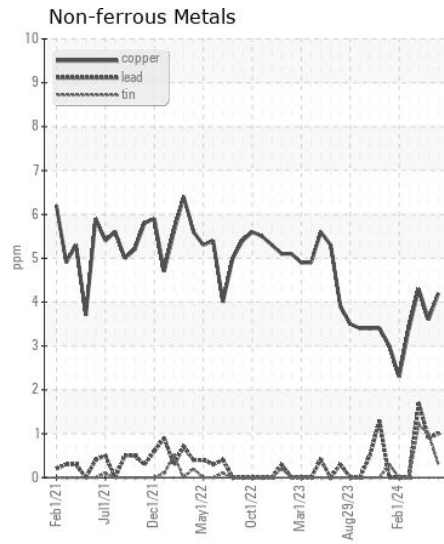
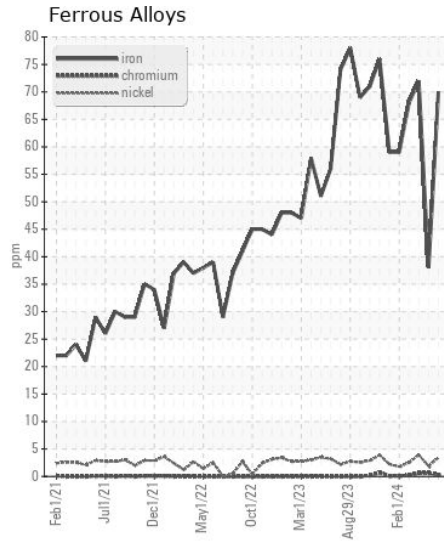
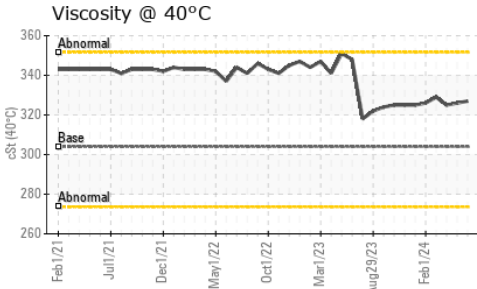
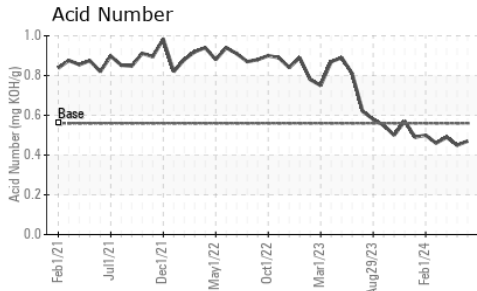
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>2</b>	3	2
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	2	3
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>6</b>	9	7
Boron	ppm	ASTM D5185m	20	<b>5</b>	2	6
Barium	ppm	ASTM D5185m		<b>2</b>	0	1
Molybdenum	ppm	ASTM D5185m	0	<b>1</b>	1	2
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	1
Magnesium	ppm	ASTM D5185m		<b>1</b>	<1	1
Calcium	ppm	ASTM D5185m	25	<b>4</b>	13	14
Phosphorus	ppm	ASTM D5185m	235	<b>251</b>	146	230
Zinc	ppm	ASTM D5185m		<b>3</b>	2	2
Sulfur	ppm	ASTM D5185m		<b>6788</b>	4305	6675
Acid Number (AN)	mg KOH/g	ASTM D8045	0.56	<b>0.47</b>	0.45	0.49
Visc @ 40°C	cSt	ASTM D445	304	<b>327</b>	326	325



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0049574  
**Lab Number** : 06218859  
**Unique Number** : 11097056  
**Test Package** : MAR 2

**Received** : 24 Jun 2024  
**Tested** : 25 Jun 2024  
**Diagnosed** : 25 Jun 2024 - Wes Davis

**INGRAM BARGE**  
 900 S 3RD ST  
 PADUCAH, KY  
 US 42003

Contact: JUSTIN WHEELER  
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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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