



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

Area  
**BRIAN A NAPACK**  
Machine Id  
**[BRIAN A NAPACK] 001 640349-1**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 710 LE (335 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0068339</b>	MW0068336	MW0061493
Sample Date		Client Info		<b>30 Mar 2024</b>	01 Mar 2024	01 Jan 2024
Machine Age	hrs	Client Info		<b>76295</b>	75613	74184
Oil Age	hrs	Client Info		<b>76295</b>	0	74184
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	>75	<b>14</b>	13	16
Chromium	ppm	ASTM D5185m	>8	<b>2</b>	<1	<1
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>2</b>	1	2
Lead	ppm	ASTM D5185m	>18	<b>6</b>	4	5
Copper	ppm	ASTM D5185m	>80	<b>25</b>	21	25
Tin	ppm	ASTM D5185m	>14	<b>5</b>	3	4
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

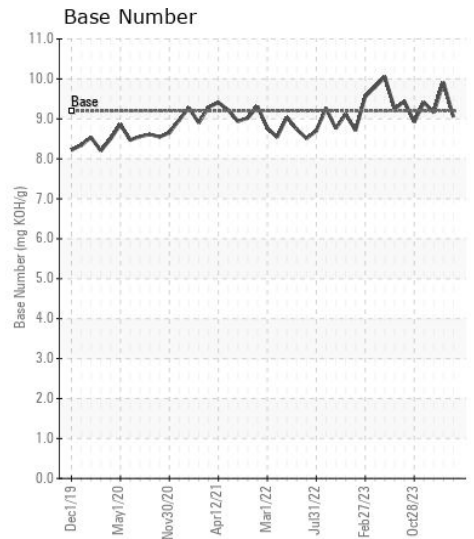
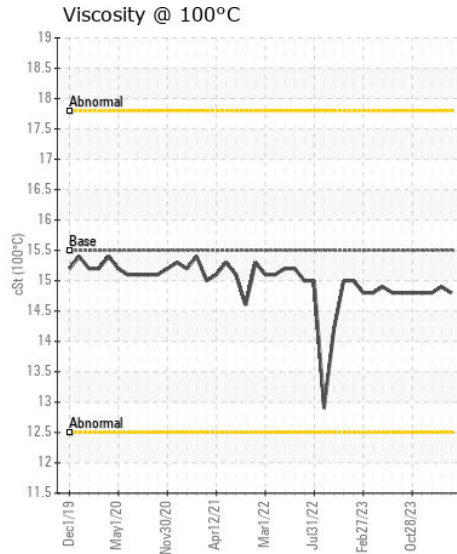
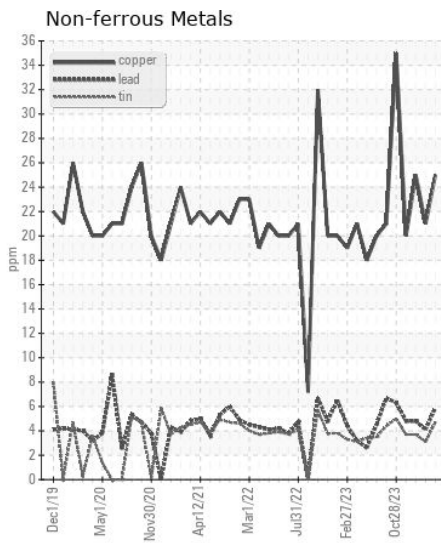
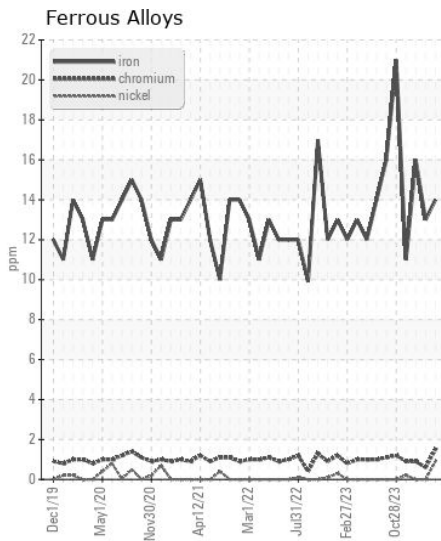
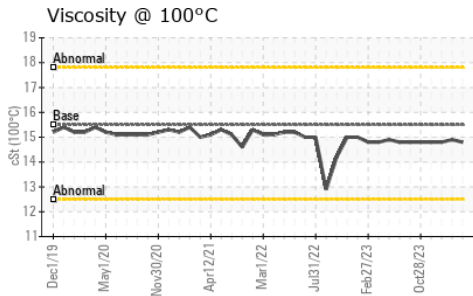
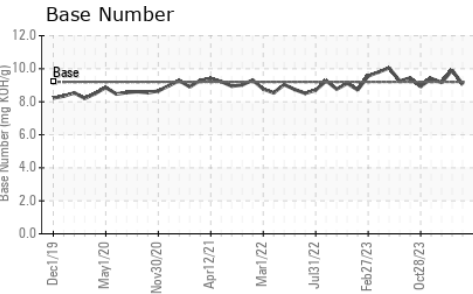
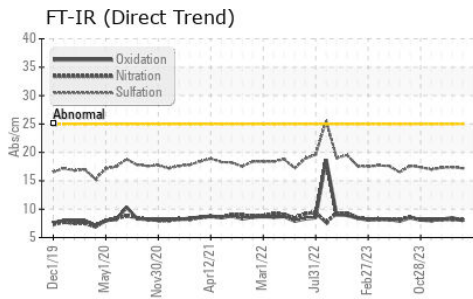
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>5</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>1.2</b>	1.1	1.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.1</b>	8.2	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.2</b>	17.4	17.3
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	<b>6</b>	4	3
Boron	ppm	ASTM D5185m		<b>46</b>	50	48
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>49</b>	51	48
Manganese	ppm	ASTM D5185m		<b>2</b>	1	<1
Magnesium	ppm	ASTM D5185m		<b>14</b>	40	14
Calcium	ppm	ASTM D5185m		<b>3486</b>	3884	3382
Phosphorus	ppm	ASTM D5185m		<b>15</b>	23	2
Zinc	ppm	ASTM D5185m	10	<b>8</b>	28	8
Sulfur	ppm	ASTM D5185m		<b>2364</b>	3002	2561
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>8.0</b>	8.5	8.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.2	<b>9.05</b>	9.91	9.16
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.8</b>	14.9	14.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0068339  
**Lab Number** : 06146702  
**Unique Number** : 10976780  
**Test Package** : MAR 2  
**Received** : 11 Apr 2024  
**Tested** : 12 Apr 2024  
**Diagnosed** : 15 Apr 2024 - Sean Felton

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

Contact: JUSTIN WHEELER  
 justin.wheeler@ingrambarga.com

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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