



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

Area  
**JOHN F SECREST**  
Machine Id  
**[JOHN F SECREST] 001 565425-1**  
Component  
**Port Main Engine**  
Fluid  
**CHEVRON DELO 710 LS (250 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0068749</b>	MW0068746	MW0065924
Sample Date		Client Info		<b>01 May 2024</b>	19 Apr 2024	01 Apr 2024
Machine Age	hrs	Client Info		<b>13971</b>	13702	13251
Oil Age	hrs	Client Info		<b>0</b>	13702	13251
Filter Age	hrs	Client Info		<b>0</b>	0	13251
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	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>75	<b>13</b>	14	17
Chromium	ppm	ASTM D5185m	>8	<b>1</b>	2	3
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>15	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>18	<b>4</b>	5	7
Copper	ppm	ASTM D5185m	>80	<b>17</b>	16	▲ 52
Tin	ppm	ASTM D5185m	>14	<b>7</b>	7	8
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT

**CONTAMINATION**

There is no indication of any contamination in the oil.

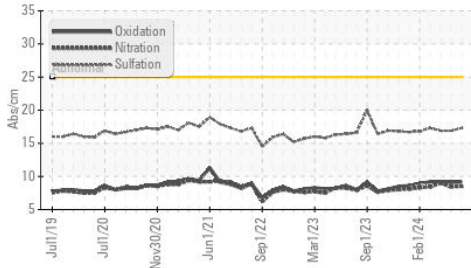
Silicon	ppm	ASTM D5185m	>20	<b>4</b>	4	5
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	0.0
Soot %	%	*ASTM D7844	>3	<b>0.6</b>	0.6	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>8.5</b>	8.4	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>17.3</b>	16.9	16.9
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	▲ 0.2%

**FLUID CONDITION**

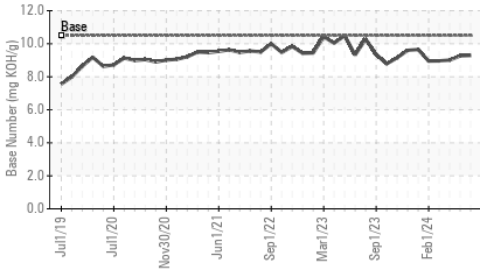
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>75	<b>2</b>	1	5
Boron	ppm	ASTM D5185m		<b>51</b>	44	46
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>48</b>	48	50
Manganese	ppm	ASTM D5185m		<b>2</b>	2	2
Magnesium	ppm	ASTM D5185m		<b>17</b>	20	14
Calcium	ppm	ASTM D5185m		<b>3523</b>	3972	3558
Phosphorus	ppm	ASTM D5185m		<b>11</b>	13	16
Zinc	ppm	ASTM D5185m		<b>12</b>	15	27
Sulfur	ppm	ASTM D5185m		<b>2692</b>	3257	2428
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>9.1</b>	9.1	9.2
Base Number (BN)	mg KOH/g	ASTM D2896	10.5	<b>9.29</b>	9.26	9.01
Visc @ 100°C	cSt	ASTM D445	15.5	<b>14.8</b>	14.7	14.7

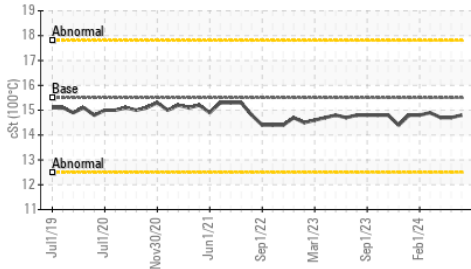
**FT-IR (Direct Trend)**



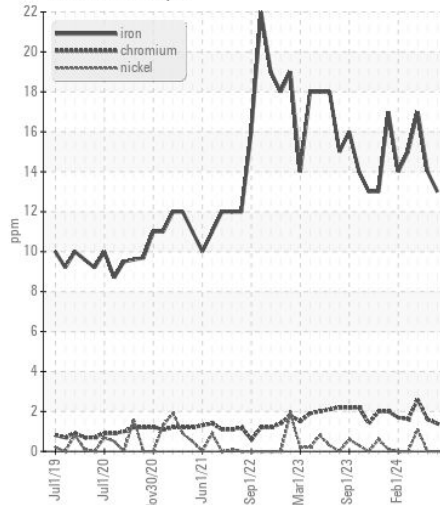
**Base Number**



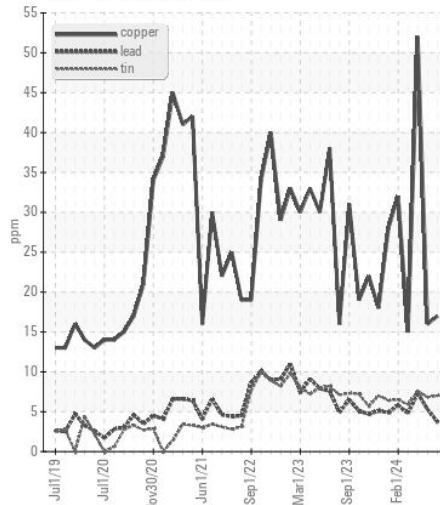
**Viscosity @ 100°C**



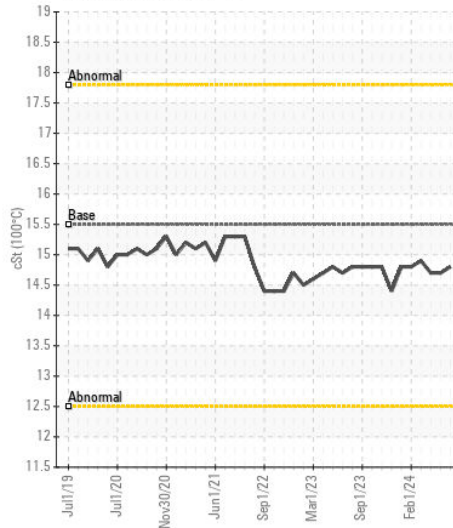
**Ferrous Alloys**



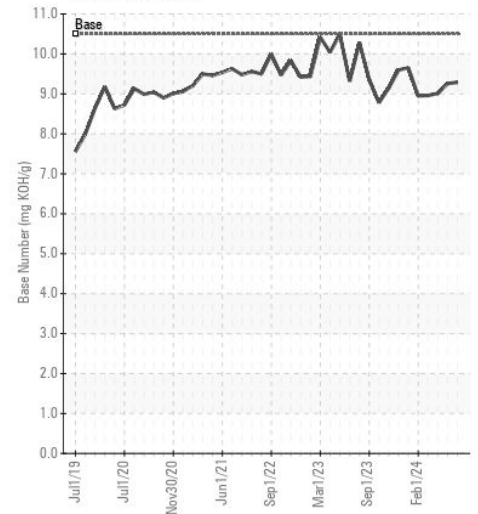
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0068749  
**Lab Number** : 06176237  
**Unique Number** : 11022290  
**Test Package** : MAR 2

**Received** : 10 May 2024  
**Tested** : 13 May 2024  
**Diagnosed** : 13 May 2024 - Wes Davis

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

Contact: ANTHONY VAN CURA  
 anthony.vancura@ingrambarga.com  
 T: (270)415-4467  
 F: (615)695-3697

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)