



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

Machine Id  
**SAFETY LEGEND (S/N CC-4670-09)**

Component  
**Port Genset**

Fluid  
**CHEVRON URSA SUPER PLUS 40 (4 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0059617</b>	MW0064255	MW0064236
Sample Date		Client Info		<b>01 Jul 2024</b>	25 Mar 2024	11 Jan 2024
Machine Age	hrs	Client Info		<b>2952</b>	2782	2728
Oil Age	hrs	Client Info		<b>14</b>	90	36
Filter Age	hrs	Client Info		<b>14</b>	90	36
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>20</b>	25	21
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>12	<b>2</b>	<1	<1
Lead	ppm	ASTM D5185m	>17	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	>70	<b>4</b>	4	4
Tin	ppm	ASTM D5185m	>15	<b>2</b>	2	3
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
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.

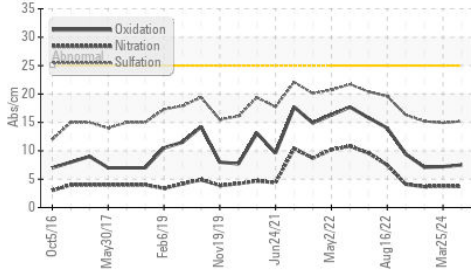
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	5	6
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	3	0
Fuel		WC Method	>4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>3.7</b>	3.8	3.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>15.2</b>	14.9	15.2
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**

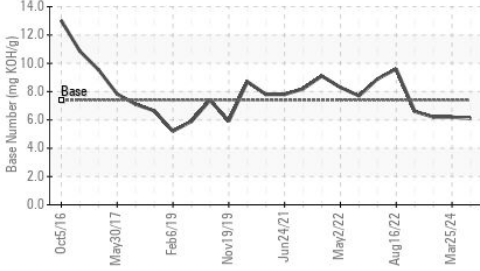
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>8</b>	7	4
Boron	ppm	ASTM D5185m		<b>333</b>	291	293
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>40</b>	36	39
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>86</b>	73	104
Calcium	ppm	ASTM D5185m		<b>2466</b>	2422	2284
Phosphorus	ppm	ASTM D5185m	1000	<b>728</b>	705	741
Zinc	ppm	ASTM D5185m	1090	<b>823</b>	826	873
Sulfur	ppm	ASTM D5185m		<b>3319</b>	3329	3033
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>7.5</b>	7.2	7.1
Base Number (BN)	mg KOH/g	ASTM D2896	7.4	<b>6.1</b>	6.2	6.2
Visc @ 100°C	cSt	ASTM D445	14.7	<b>13.8</b>	13.7	13.5

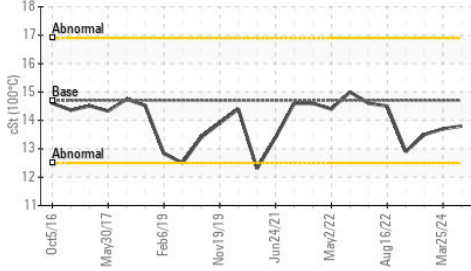
**FT-IR (Direct Trend)**



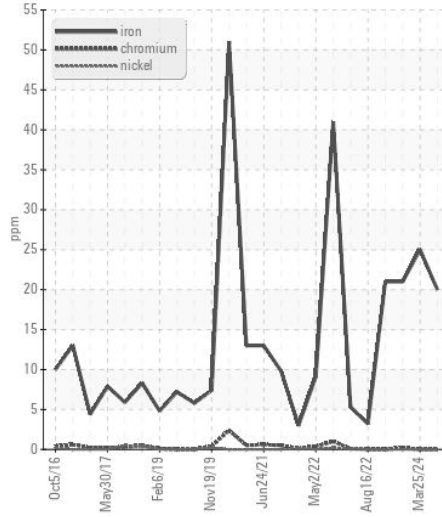
**Base Number**



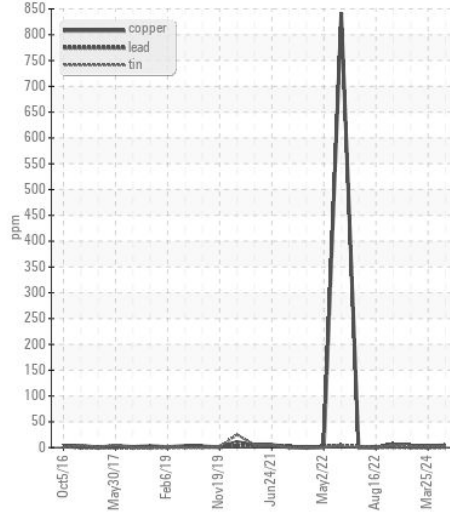
**Viscosity @ 100°C**



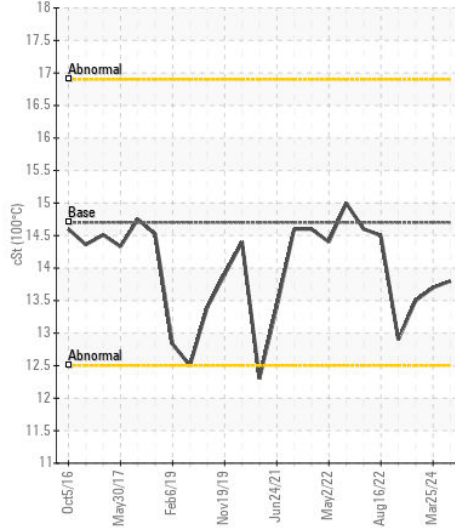
**Ferrous Alloys**



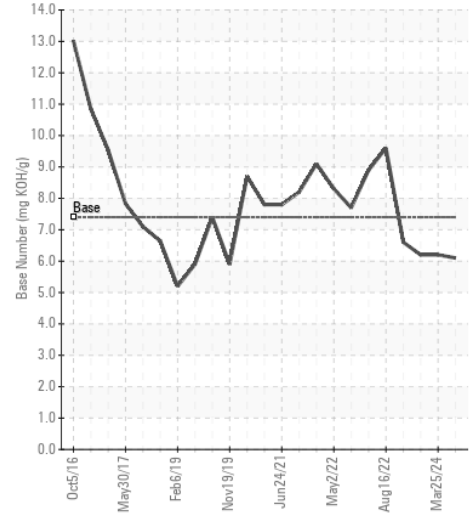
**Non-ferrous Metals**



**Viscosity @ 100°C**



**Base Number**



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : MW0059617

**Lab Number** : 06229799

**Unique Number** : 11113292

**Test Package** : MAR 2

**Received** : 08 Jul 2024

**Tested** : 09 Jul 2024

**Diagnosed** : 09 Jul 2024 - Wes Davis

**MARITIME COMPANY**

3802 PORT RIVER RD

PASCAGOULA, MS

US 39567

Contact: TERRY SCUDDER

terry.scudder@signetmaritime.com

T:

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)

F: (228)769-0629