



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

Machine Id  
**SIGNET VICTORY - WINCH (S/N WINCH ENG)**  
Component  
**Diesel Engine**  
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>MW0040272</b>	MW0064132	MW0064088
Sample Date		Client Info		<b>28 Jun 2024</b>	29 Apr 2024	29 Jan 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
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	>200	<b>19</b>	12	11
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m	>30	<b>2</b>	<1	1
Copper	ppm	ASTM D5185m	>30	<b>5</b>	4	4
Tin	ppm	ASTM D5185m	>15	<b>1</b>	1	1
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**

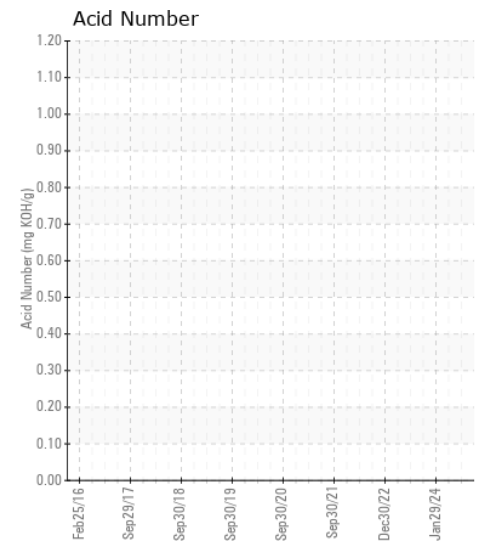
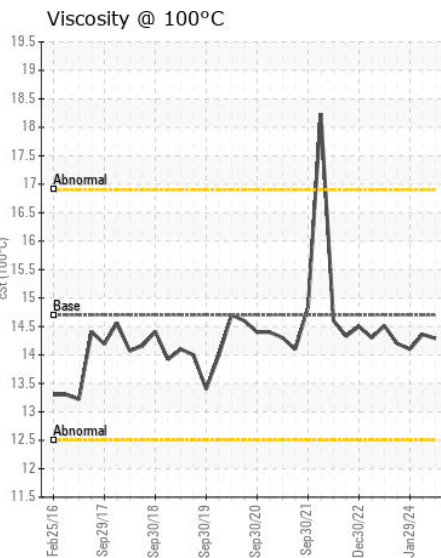
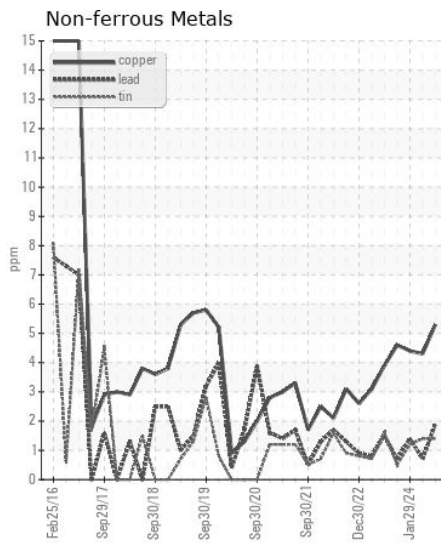
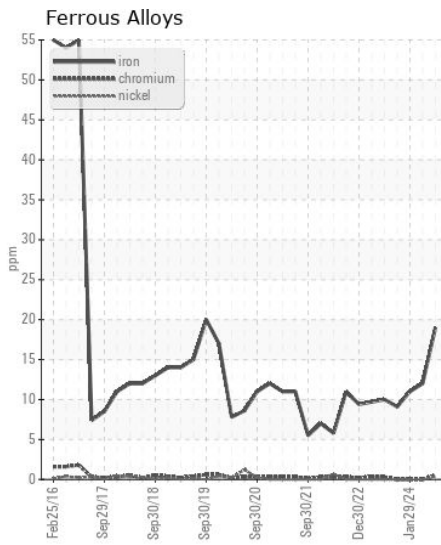
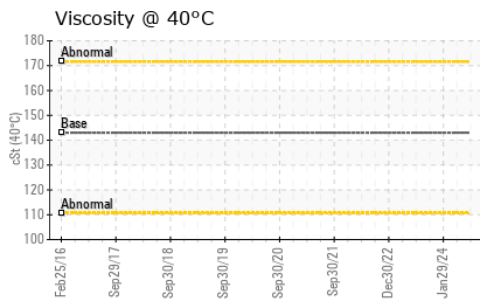
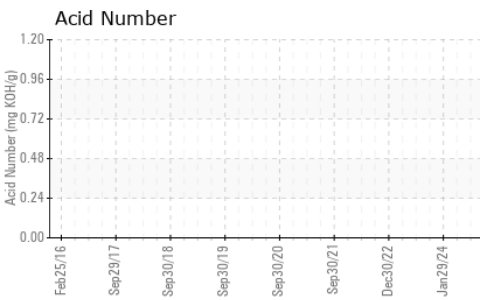
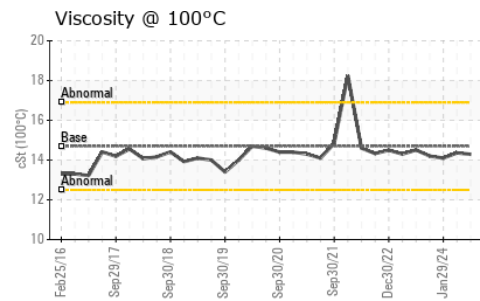
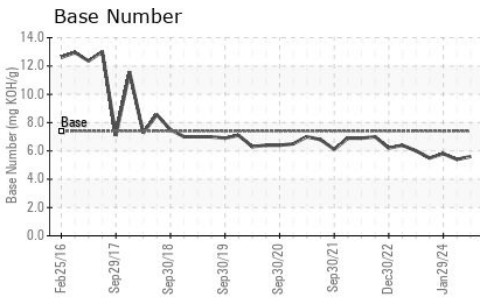
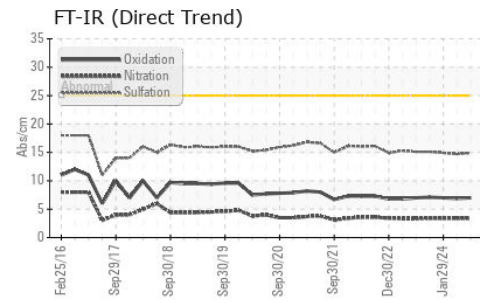
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	<b>9</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	0
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>3.4</b>	3.4	3.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>14.9</b>	14.7	14.9
Silt	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>0.2	<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>2</b>	2	3
Boron	ppm	ASTM D5185m		<b>276</b>	312	281
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>32</b>	32	35
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>32</b>	33	41
Calcium	ppm	ASTM D5185m		<b>2204</b>	2278	1972
Phosphorus	ppm	ASTM D5185m	1000	<b>677</b>	647	613
Zinc	ppm	ASTM D5185m	1090	<b>775</b>	725	693
Sulfur	ppm	ASTM D5185m		<b>3746</b>	2955	2427
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>7.0</b>	6.9	7.0
Base Number (BN)	mg KOH/g	ASTM D2896	7.4	<b>5.6</b>	5.4	5.8
Visc @ 100°C	cSt	ASTM D445	14.7	<b>14.29</b>	14.36	14.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0040272  
**Lab Number** : 06224647  
**Unique Number** : 11102844  
**Test Package** : MAR 2 ( Additional Tests: KV40 )

**Received** : 01 Jul 2024  
**Tested** : 06 Jul 2024  
**Diagnosed** : 06 Jul 2024 - Don Baldridge

**MARITIME COMPANY**  
 3802 PORT RIVER RD  
 PASCAGOULA, MS  
 US 39567

Contact: MARK KOPSYWA  
 mark.kopszywa@signetmaritime.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)

T:  
 F: (228)769-0629