



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

Machine Id  
**TWIN DISC DANNY K**  
Component  
**Starboard Reduction Gear**  
Fluid  
**CHEVRON DELO 400 SAE 40 (9 GAL)**

**RECOMMENDATION**

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

**WEAR**

The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated.

**CONTAMINATION**

There is no indication of any contamination in the oil.

**FLUID CONDITION**

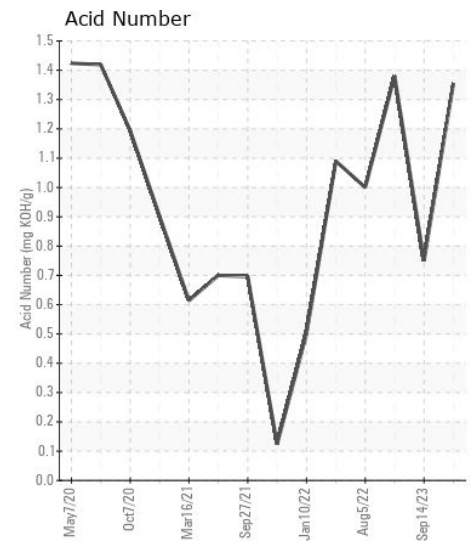
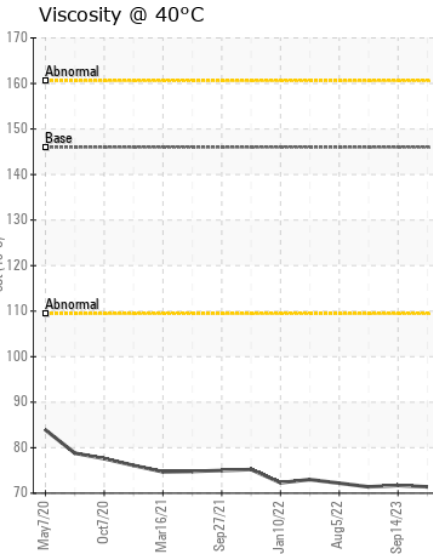
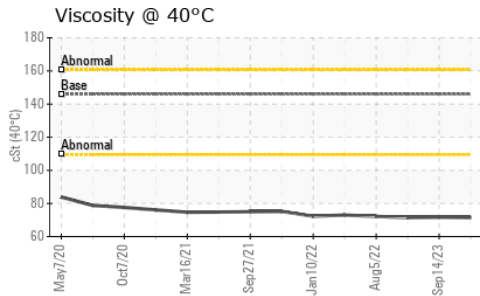
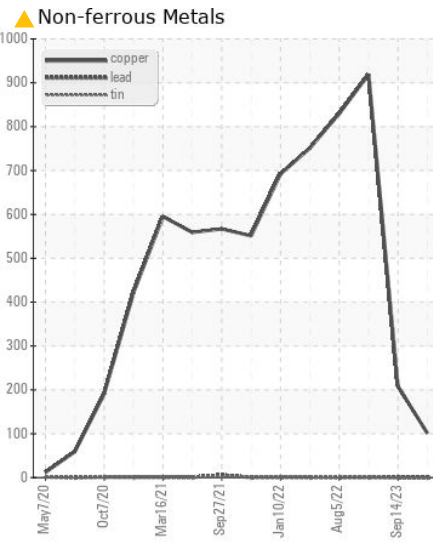
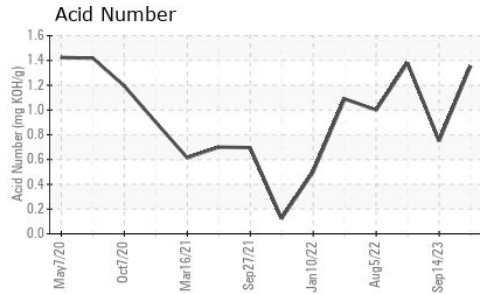
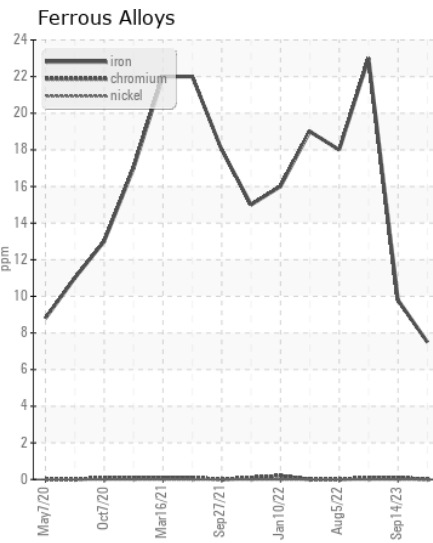
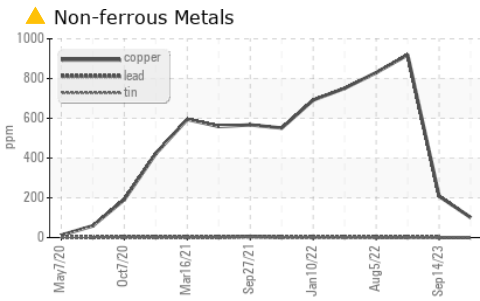
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0060481</b>	MW0060643	MW0014374
Sample Date		Client Info		<b>26 Jan 2024</b>	14 Sep 2023	02 Nov 2022
Machine Age	hrs	Client Info		<b>0</b>	26250	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>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

Iron	ppm	ASTM D5185m	>150	<b>8</b>	10	23
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>11</b>	7	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	6	3
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>▲ 101</b>	<b>▲ 208</b>	<b>▲ 919</b>
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	<b>4</b>	5	7
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0
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>	0.2%	NEG

Sodium	ppm	ASTM D5185m		<b>3</b>	4	5
Boron	ppm	ASTM D5185m		<b>224</b>	278	419
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>57</b>	78	114
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>717</b>	686	595
Calcium	ppm	ASTM D5185m		<b>1777</b>	1622	1754
Phosphorus	ppm	ASTM D5185m	1160	<b>754</b>	697	759
Zinc	ppm	ASTM D5185m	1270	<b>847</b>	793	835
Sulfur	ppm	ASTM D5185m		<b>3173</b>	3396	3076
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.355</b>	0.75	1.38
Visc @ 40°C	cSt	ASTM D445	146	<b>71.4</b>	71.7	71.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0060481  
**Lab Number** : 06086177  
**Unique Number** : 10873622  
**Test Package** : MAR 2  
**Received** : 12 Feb 2024  
**Tested** : 13 Feb 2024  
**Diagnosed** : 13 Feb 2024 - Don Baldrige

**ERGON MARINE**  
 100 LEE STREET  
 VICKSBURG, MS  
 US 39180

Contact: JOHNNY GERACHE  
 johnny.gerache@ergon.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: (601)636-6552  
 F: (601)636-6173