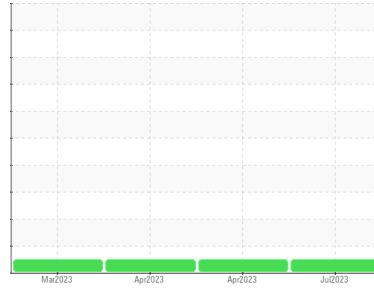




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
RH BEYMER
 Component
Starboard Reduction Gear
 Fluid
KENDALL D3 40W (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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 suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC05902867	WC05829093	WC05816164
Sample Date	Client Info		18 Jul 2023	24 Apr 2023	09 Apr 2023
Machine Age	hrs	Client Info	30311	28374	28374
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	Not Changd	N/A
Sample Status			NORMAL	NORMAL	NORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	2	12	2
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m >10	0	0	0
Titanium	ppm	ASTM D5185m	12	12	45
Silver	ppm	ASTM D5185m	<1	0	<1
Aluminum	ppm	ASTM D5185m >25	2	<1	1
Lead	ppm	ASTM D5185m >100	<1	0	0
Copper	ppm	ASTM D5185m >50	<1	14	<1
Tin	ppm	ASTM D5185m >10	<1	0	0
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	62	36	108
Barium	ppm	ASTM D5185m	0	<1	0
Molybdenum	ppm	ASTM D5185m	34	9	27
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	74	98	229
Calcium	ppm	ASTM D5185m	2967	1696	2248
Phosphorus	ppm	ASTM D5185m	1050	599	1049
Zinc	ppm	ASTM D5185m	1207	710	1212
Sulfur	ppm	ASTM D5185m	4902	3036	4891

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	6	2	6
Sodium	ppm	ASTM D5185m	2	3	2
Potassium	ppm	ASTM D5185m >20	2	0	1

FLUID DEGRADATION

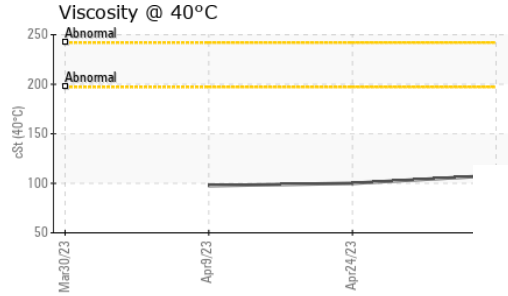
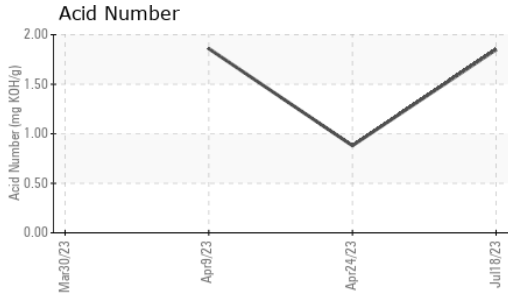
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.85	0.88	1.86

VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual NONE	NONE	NONE	NONE
Silt	scalar	*Visual NONE	NONE	NONE	NONE
Debris	scalar	*Visual NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual NONE	NONE	NONE	NONE
Appearance	scalar	*Visual NORML	NORML	NORML	NORML
Odor	scalar	*Visual NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual >0.1	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

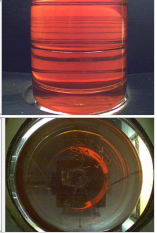


OIL ANALYSIS REPORT

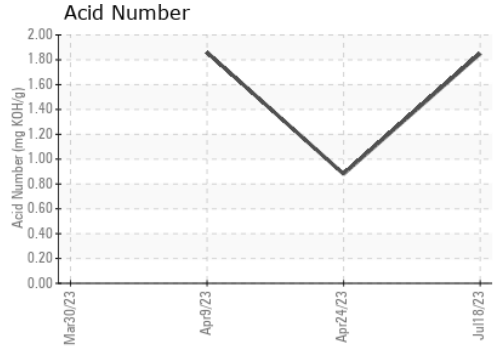
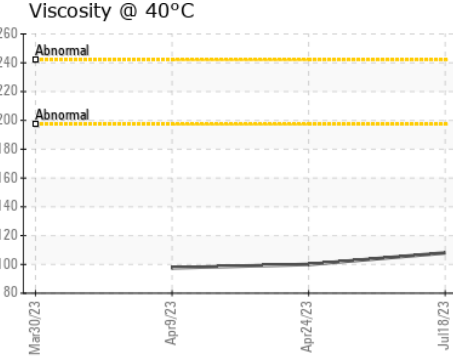
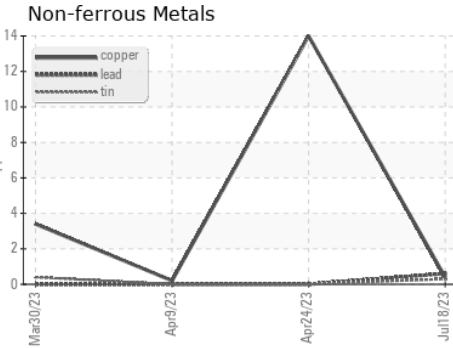
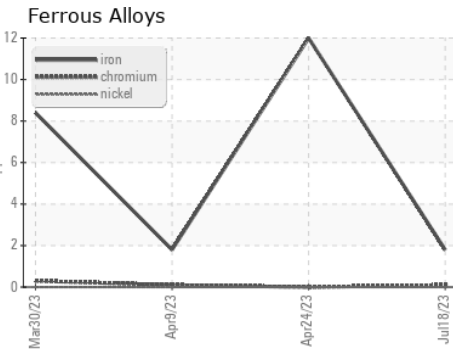


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	108	100	97.6

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC05902867 **Received** : 19 Jul 2023
Lab Number : 05902867 **Diagnosed** : 21 Jul 2023
Unique Number : 10564223 **Diagnostician** : Don Baldrige
Test Package : MAR 2

SUPERIOR MARINE WAYS
 5852 CO RD 1
 SOUTH POINT, OH
 US 45680
 Contact: DARRELL KEARNS
 darrellkerns@superiormarineinc.com
 T: (740)894-6224
 F:

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)