



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
SANDY B
Machine Id
[SANDY B] 006 562531-6
Component
Starboard Reduction Gear
Fluid
SHELL ROTELLA T 40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

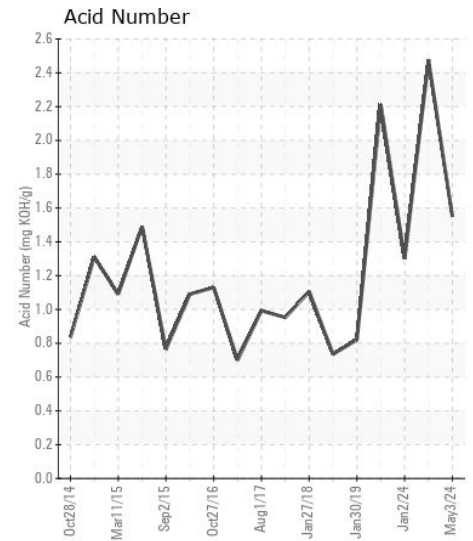
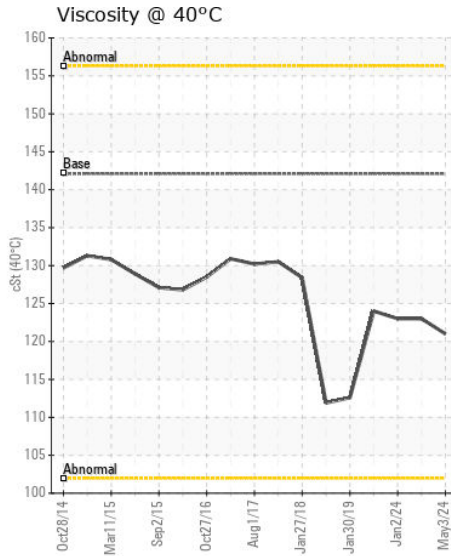
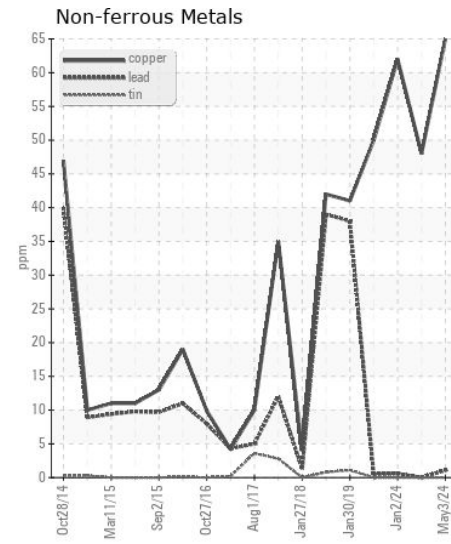
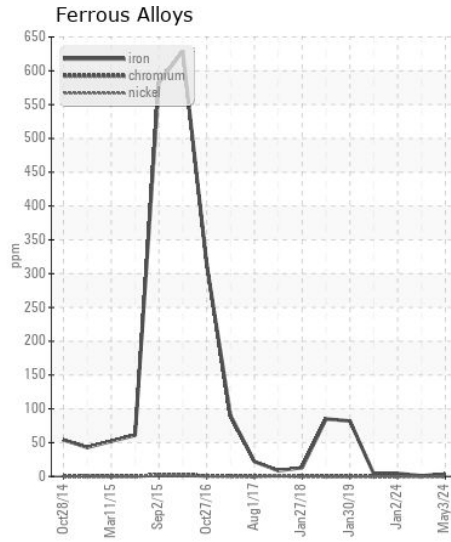
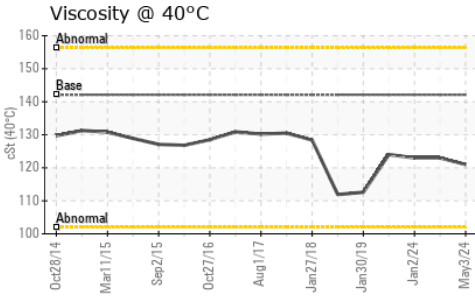
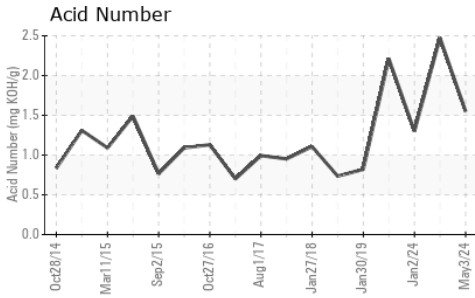
CONTAMINATION

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0068801	MW0068849	MW0061657
Sample Date		Client Info		03 May 2024	06 Apr 2024	02 Jan 2024
Machine Age	hrs	Client Info		5282	4927	3702
Oil Age	hrs	Client Info		159	395	1235
Filter Age	hrs	Client Info		159	395	1235
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
Iron	ppm	ASTM D5185m	>150	3	1	4
Chromium	ppm	ASTM D5185m	>10	0	<1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	10	8	<1
Lead	ppm	ASTM D5185m	>100	1	0	<1
Copper	ppm	ASTM D5185m	>50	65	48	62
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	2	2	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water		WC Method	>0.1	NEG	NEG	NEG
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
Sodium	ppm	ASTM D5185m		4	2	3
Boron	ppm	ASTM D5185m	0	51	50	35
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m	0	105	105	96
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	432	72	71	59
Calcium	ppm	ASTM D5185m	1121	2658	2603	2461
Phosphorus	ppm	ASTM D5185m	996	1107	1047	1029
Zinc	ppm	ASTM D5185m	881	1226	1154	1065
Sulfur	ppm	ASTM D5185m		4238	3809	3565
Acid Number (AN)	mg KOH/g	ASTM D8045		1.55	2.474	1.30
Visc @ 40°C	cSt	ASTM D445	142.1	121	123	123



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0068801
Lab Number : 06177855
Unique Number : 11029181
Test Package : MAR 2
Received : 13 May 2024
Tested : 21 May 2024
Diagnosed : 21 May 2024 - Don Baldrige

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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)