

OIL ANALYSIS REPORT

SAMPLE INFOF

Sample Number

Sample Date

Machine Age

Sample Status

WEAR METALS

ppm

nnm

ASTM D5185m >10

ACTM DE105m

Oil Age Oil Changed

Iron

Nickel Titanium Silver Aluminum Lead Copper Tin

Chromium

Vanadium

Area Canton [Canton] Oil - Starboard Reduction Geal

Starboard Reduction Gear Fluid SAE 40W (40 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.

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G	iear	2015 Jac	D21 Oct2021 Mar2022	0x2022 Apr2023 Aug2023	Ma2Q24	
RN	1ATION	method	limit/base	current	history1	history2
		Client Info		WC0874838	WC0805421	WC0805433
		Client Info		22 Apr 2024	28 Mar 2024	27 Feb 2024
	hrs	Client Info		13105	13105	0
	hrs	Client Info		13105	13105	0
		Client Info		N/A	N/A	N/A
				NORMAL	NORMAL	NORMAL
5		method	limit/base	current	history1	history2
	ppm	ASTM D5185m	>150	20	18	19
	ppm	ASTM D5185m	>10	<1	<1	0
	ppm	ASTM D5185m	>10	0	0	0
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		<1	0	0
	ppm	ASTM D5185m	>25	0	<1	0
	ppm	ASTM D5185m	>100	0	0	0
	ppm	ASTM D5185m	>50	6	3	4

<1

^

1

0

0

NORMAL

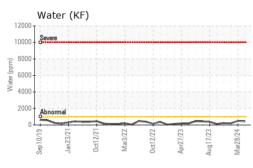
Sample Rating Trend

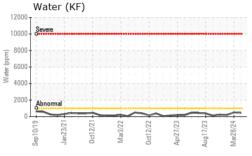
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	3	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		43	42	40
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		692	667	656
Calcium	ppm	ASTM D5185m		785	743	750
Phosphorus	ppm	ASTM D5185m		842	810	783
Zinc	ppm	ASTM D5185m		939	911	846
Sulfur	ppm	ASTM D5185m		2899	2841	2901
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	0	2	1
Sodium	ppm	ASTM D5185m		6	6	5
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	0.043	0.049	0.019
ppm Water	ppm	ASTM D6304	>1000	431	497	193
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.709	0.773	0.68

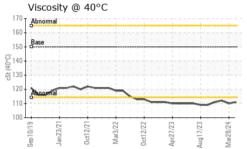
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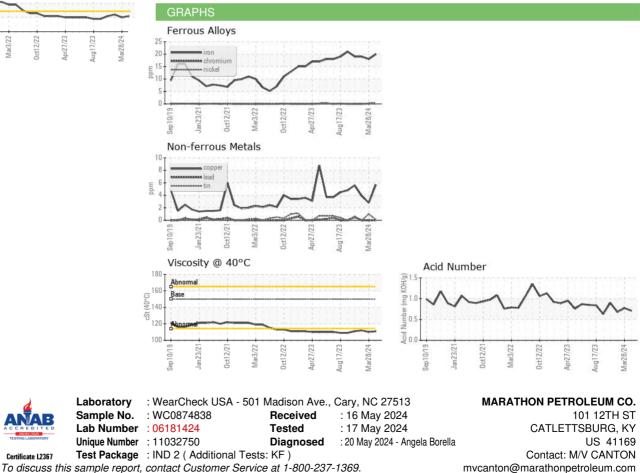


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	111	110	112
SAMPLE IMAGES		method	limit/base	current	history1	history2
				and the		

Color



Bottom



* - 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)

Submitted By: M/V CANTON Page 2 of 2

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