



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
PRS
Component
Starboard Genset
Fluid
CHEVRON URSA SUPER PLUS 40 (6 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW05862887	MW05823802	MW05823792
Sample Date		Client Info		01 Jun 2023	18 Apr 2023	18 Apr 2023
Machine Age	hrs	Client Info		19226	18302	18783
Oil Age	hrs	Client Info		443	400	481
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>25	6	7	14
Chromium	ppm	ASTM D5185m	>5	0	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	0	0	0
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>20	2	1	2
Tin	ppm	ASTM D5185m	>5	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

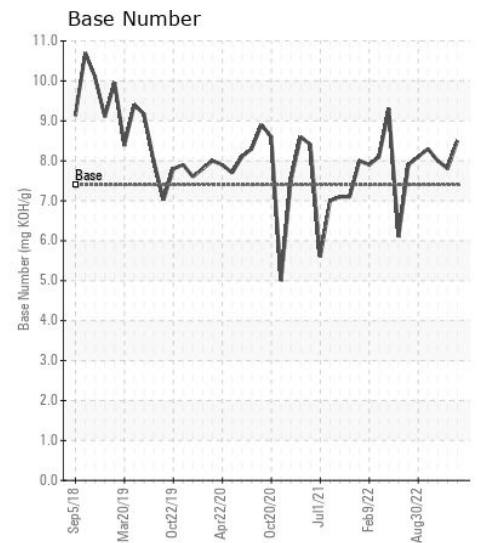
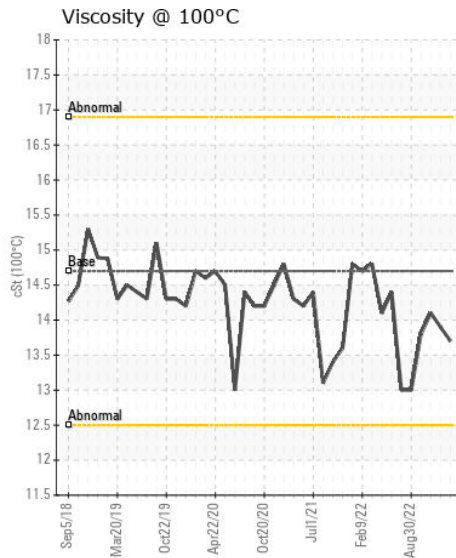
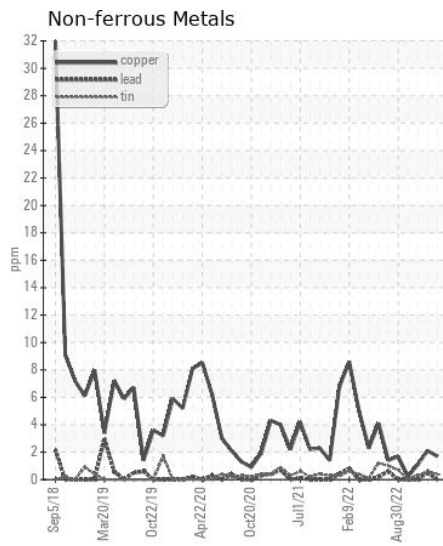
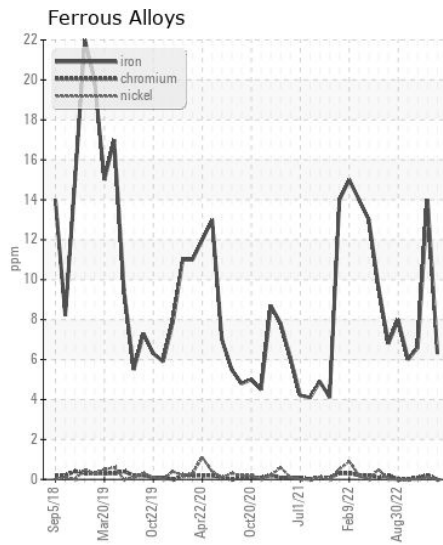
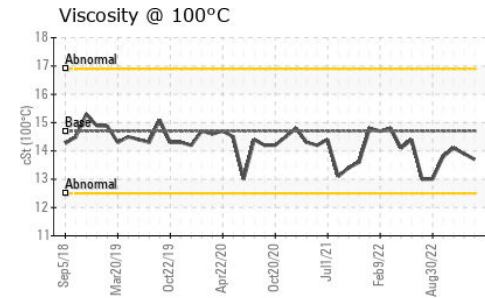
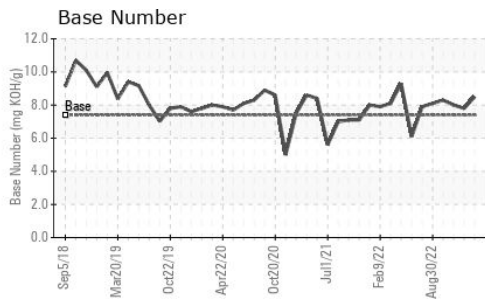
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	5	5	7
Potassium	ppm	ASTM D5185m	>20	1	1	2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.1	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.2	0.1	0.6
Nitration	Abs/cm	*ASTM D7624	>20	8.7	7.1	8.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	21.0	22.1
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

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		1	<1	2
Boron	ppm	ASTM D5185m		270	276	268
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		101	98	104
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		562	542	561
Calcium	ppm	ASTM D5185m		1708	1432	1603
Phosphorus	ppm	ASTM D5185m	1000	758	803	768
Zinc	ppm	ASTM D5185m	1090	935	980	949
Sulfur	ppm	ASTM D5185m		3152	2701	2476
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	16.0	16.8
Base Number (BN)	mg KOH/g	ASTM D2896	7.4	8.5	7.8	8.0
Visc @ 100°C	cSt	ASTM D445	14.7	13.7	13.9	14.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW05862887
Lab Number : 05862887
Unique Number : 10497352
Test Package : MAR 2

Received : 02 Jun 2023
Tested : 02 Jun 2023
Diagnosed : 05 Jun 2023 - 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)