



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. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW06187003	MW06144859	MW06101481
Sample Date		Client Info		21 May 2024	09 Apr 2024	26 Feb 2024
Machine Age	hrs	Client Info		23385	22874	22360
Oil Age	hrs	Client Info		511	514	588
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	>50	12	24	22
Chromium	ppm	ASTM D5185m	>4	0	0	<1
Nickel	ppm	ASTM D5185m	>2	0	0	1
Titanium	ppm	ASTM D5185m		<1	<1	2
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	2	1	2
Lead	ppm	ASTM D5185m	>17	<1	0	<1
Copper	ppm	ASTM D5185m	>70	4	10	11
Tin	ppm	ASTM D5185m	>15	<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

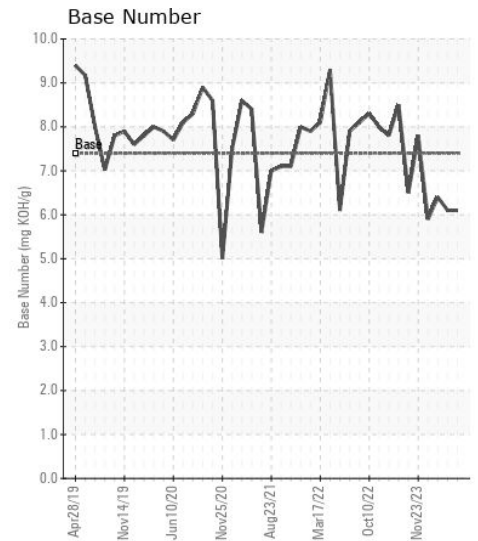
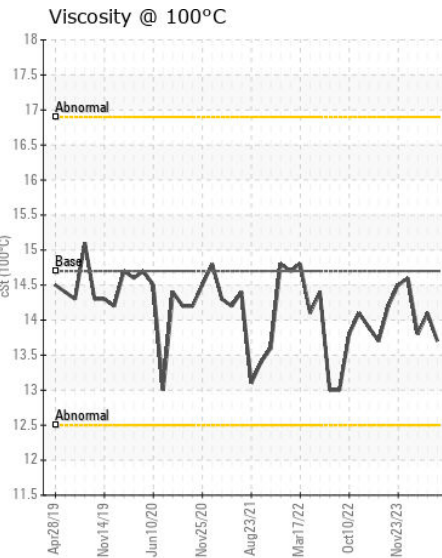
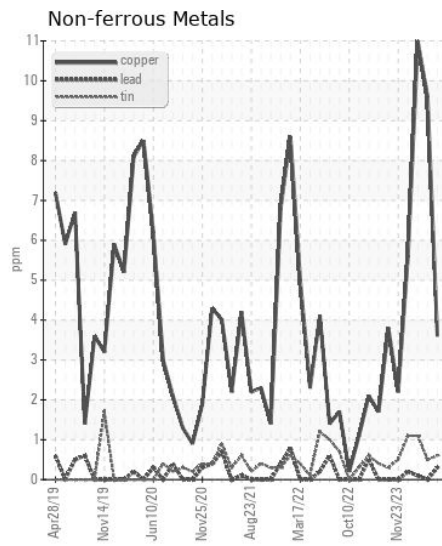
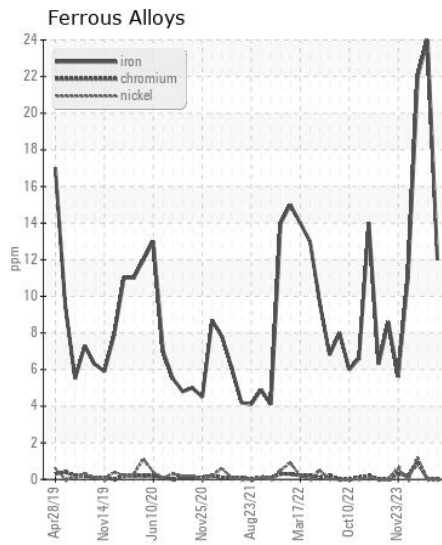
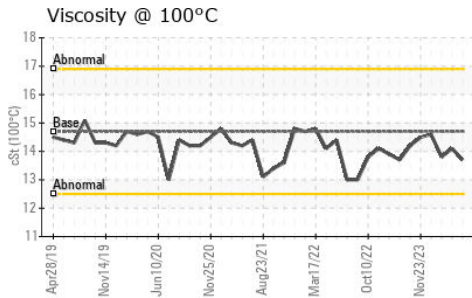
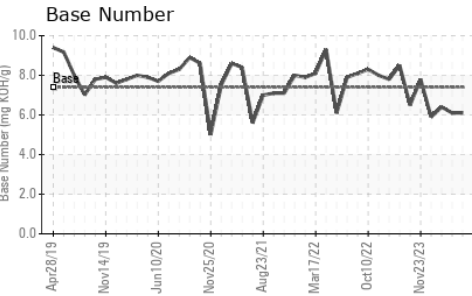
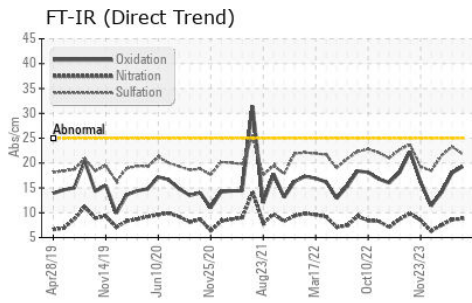
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	6
Potassium	ppm	ASTM D5185m	>20	0	0	3
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		0.3	1	1.2
Nitration	Abs/cm	*ASTM D7624	>20	8.8	8.6	7.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	23.3	21.5
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	1
Boron	ppm	ASTM D5185m		237	164	105
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		65	52	38
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		385	324	251
Calcium	ppm	ASTM D5185m		1658	2071	1976
Phosphorus	ppm	ASTM D5185m	1000	984	882	795
Zinc	ppm	ASTM D5185m	1090	1147	1121	1029
Sulfur	ppm	ASTM D5185m		3523	3172	3215
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.3	18.0	14.1
Base Number (BN)	mg KOH/g	ASTM D2896	7.4	6.1	6.1	6.4
Visc @ 100°C	cSt	ASTM D445	14.7	13.7	14.1	13.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW06187003
Lab Number : 06187003
Unique Number : 11043755
Test Package : MAR 2
Received : 21 May 2024
Tested : 23 May 2024
Diagnosed : 23 May 2024 - Sean Felton

ILLINOIS MARINE TOWING
 PO BOX 391
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 US 60439

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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)