



Area
RANDY HOOPER
Machine Id
[RANDY HOOPER] 008 622755-8
Component
Starboard Genset
Fluid
MOBIL DELVAC 1300 SUPER15W40 (7 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0064656	MW0067957	MW0061283
Sample Date		Client Info		11 Apr 2024	18 Mar 2024	15 Jan 2024
Machine Age	hrs	Client Info		3065	2701	2069
Oil Age	hrs	Client Info		364	0	424
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				ATTENTION	ATTENTION	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	8	3	6
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	4	2	3
Lead	ppm	ASTM D5185m	>17	0	<1	0
Copper	ppm	ASTM D5185m	>70	3	1	4
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

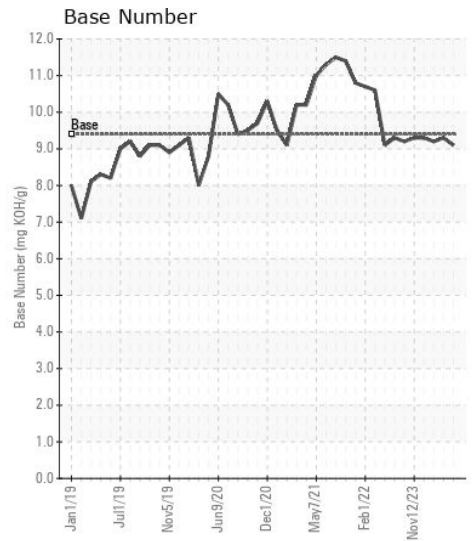
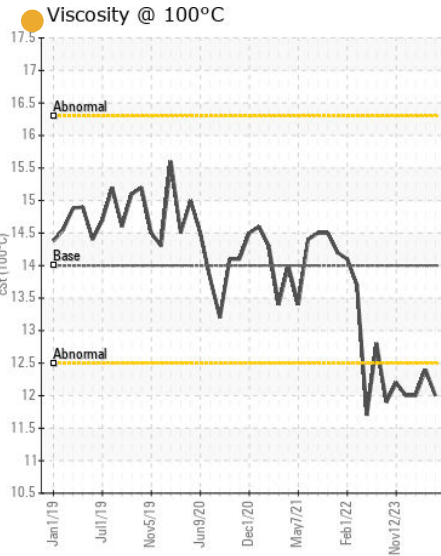
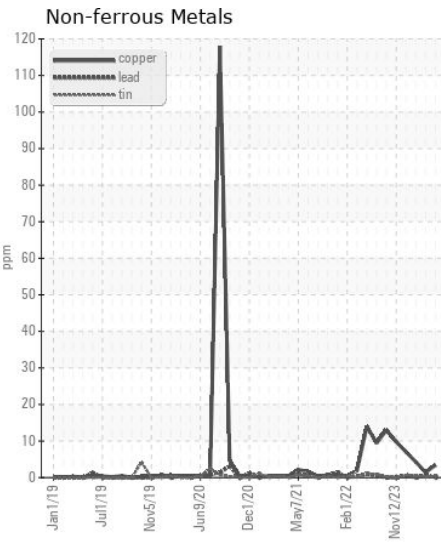
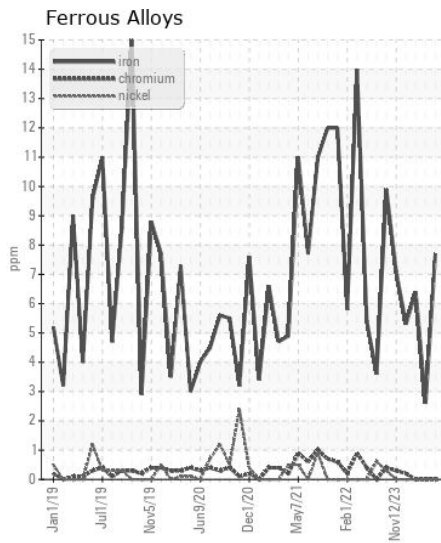
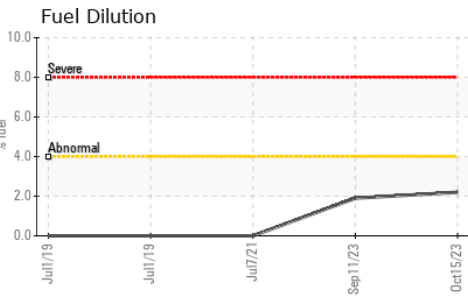
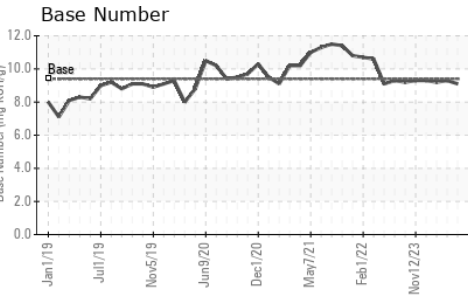
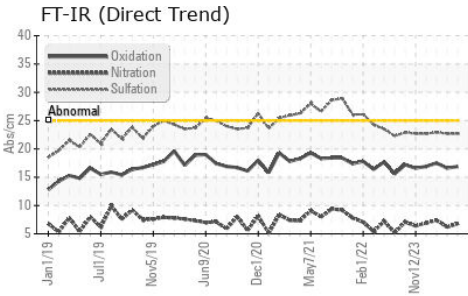
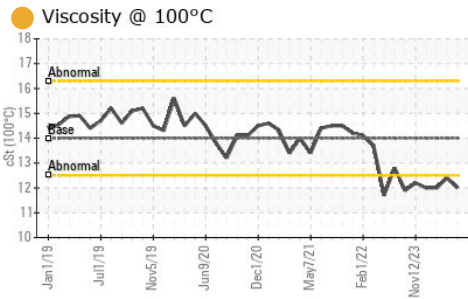
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	6	6	6
Potassium	ppm	ASTM D5185m	>20	4	<1	0
Fuel	%	ASTM D3524	>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		0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.8	6.2	7.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	22.7	22.9
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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sodium	ppm	ASTM D5185m		2	<1	2
Boron	ppm	ASTM D5185m	0	414	331	320
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	0	126	128	124
Manganese	ppm	ASTM D5185m		2	1	2
Magnesium	ppm	ASTM D5185m	0	653	705	596
Calcium	ppm	ASTM D5185m		1513	1653	1493
Phosphorus	ppm	ASTM D5185m		734	726	638
Zinc	ppm	ASTM D5185m		828	907	666
Sulfur	ppm	ASTM D5185m		2944	3129	2268
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.9	16.6	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	9.4	9.1	9.3	9.2
Visc @ 100°C	cSt	ASTM D445	14	12.0	12.4	12.0



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0064656 **Received** : 18 Apr 2024
Lab Number : 06153697 **Tested** : 23 Apr 2024
Unique Number : 10983775 **Diagnosed** : 23 Apr 2024 - Don Baldrige
Test Package : MAR 2 (Additional Tests: FuelDilution, PercentFuel)

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)

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