

OIL ANALYSIS REPORT

Sample Rating Trend

Area Nashville [Nashville] Oil - Starboard Genset

Starboard Genset Fluid

MOBIL 15W40 (7 GAL)

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Dparnell)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

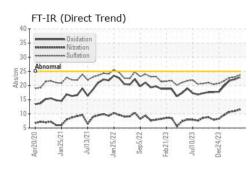
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

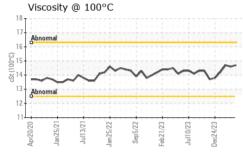
										NORMAL	
		Jan2021	Jui2021	Jan2022	Sep2022	FebZ023	Jut2023	Dec2023			
ne	tho	b	limit	/base		cur	rent		history1	history2	
ier	ient Info			WC0874895			WC	0874901	WC0846027		
ient Info			15 Apr 2024			18	Mar 2024	20 Feb 2024			
ient Info			1696			140	9	1010			
ier	ient Info			1438			115	0	752		
ient Info			Filtered			Not	Changd	Filtered			

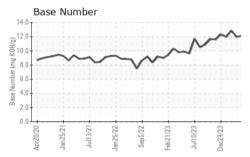
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874895	WC0874901	WC0846027
Sample Date		Client Info		15 Apr 2024	18 Mar 2024	20 Feb 2024
Machine Age	hrs	Client Info		1696	1409	1010
Oil Age	hrs	Client Info		1438	1150	752
Oil Changed		Client Info		Filtered	Not Changd	Filtered
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	36	36	31
Chromium	ppm	ASTM D5185m		1	1	2
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	2	2	1
Lead	ppm	ASTM D5185m	>17	3	3	2
Copper	ppm	ASTM D5185m	>70	4	6	5
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
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		50	53	53
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		53	55	53
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1179	1240	1211
Calcium	ppm	ASTM D5185m		1596	1636	1670
Phosphorus	ppm	ASTM D5185m		1103	1156	1062
Zinc	ppm	ASTM D5185m		1353	1420	1348
Sulfur	ppm	ASTM D5185m		3763	4115	3471
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m	>118	3	3	3
Potassium	ppm	ASTM D5185m	>20	3	3	2
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	11.5	11.0	10.7
Cultation			00	00 7	00.0	~~ =
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.7	23.0	22.7
FLUID DEGRADA		*ASTM D7415 method	>30 limit/base	23.7 current	23.0 history1	22.7 history2
				current		
FLUID DEGRADA	TION	method	limit/base		history1	history2



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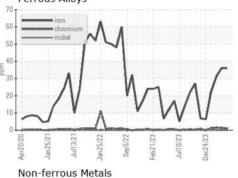


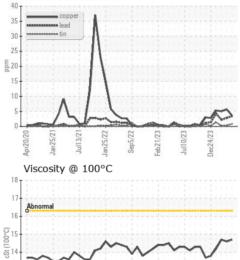


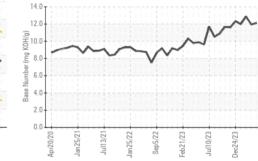


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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 @ 100°C	cSt	ASTM D445		14.7	14.6	14.7
GRAPHS						

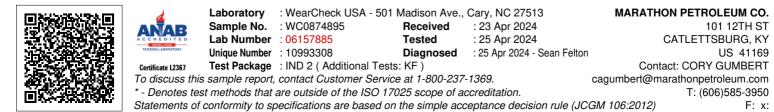








Base Number



an75/77

Feb21/23

ul10/23

ep5/22

Dec24/23

13

12

11-

Anr20/70

Abnorma

Jan 25/21

Jul13/21

Submitted By: M/V NASHVILLE

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