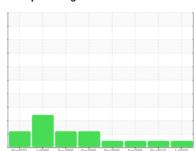


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

500 YANMAR 35 CABO

Component
Starboard Diesel Engine

SHELL ROTELLA T 15W40 (4 GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

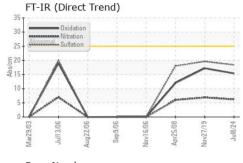
Fluid Condition

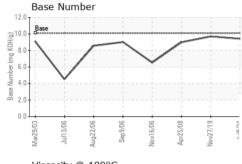
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

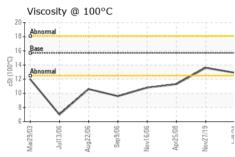
Mar2003 Jul2006 Aug2006 Sep2006 Nev2006 Apr2008 Nev2019 Jul2024							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		WC0919938	WC0415755	WCMF109229	
Sample Date		Client Info		08 Jul 2024	27 Nov 2019	25 Apr 2008	
Machine Age	hrs	Client Info		2100	1750	898	
Oil Age	hrs	Client Info		100	0	64	
Oil Changed		Client Info		Changed	Changed	Not Changd	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATION	J	method	limit/base	current	history1	history2	
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	
WEAR METALS		method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>80	7	9	29	
Chromium	ppm	ASTM D5185m	>6	0	<1	<1	
Nickel	ppm	ASTM D5185m	>2	0	<1	<1	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	0	0	
Aluminum	ppm	ASTM D5185m	>20	2	2	4	
Lead	ppm	ASTM D5185m	>95	<1	10	4	
Copper	ppm	ASTM D5185m	>85	<1	2	2	
Tin	ppm	ASTM D5185m	>9	<1	0	<1	
Antimony	ppm	ASTM D5185m			0	0	
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	316	7	56	100	
Barium	ppm	ASTM D5185m	0.0	0	0	0	
Molybdenum	ppm	ASTM D5185m	1.2	56	53	82	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m	24	392	739	62	
Calcium	ppm	ASTM D5185m	2292	1743	1301	2705	
Phosphorus	ppm	ASTM D5185m	1064	1048	1032	1016	
Zinc	ppm	ASTM D5185m	1160	1247	1134	1241	
Sulfur	ppm	ASTM D5185m		4127	2722	8112	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	3	4	0	
Sodium	ppm	ASTM D5185m	00	2	1	4	
Potassium	ppm	ASTM D5185m	>20	<1	5	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0.1	0.2	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.2	6.9	6.	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19.6	18.	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.4	17.2	12.	
Base Number (BN)	mg KOH/g	ASTM D2896	10.1	9.42	9.70	8.99	



OIL ANALYSIS REPORT





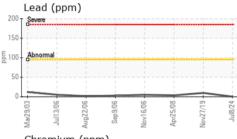


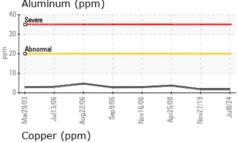
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

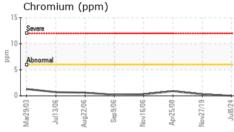
FLUID PROPER	HES	method	ilmit/base		nistory i	nistory∠
Visc @ 100°C	cSt	ASTM D445	15.7	12.9	13.6	11.3

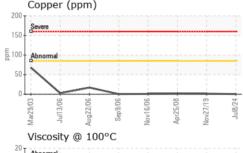
Iro 150 ⊤ Seve	n (ppn	n)						
100								
Abn	ormal							
50-								
	_							
Mar29/03	Jul13/06 +	Aug22/06 -	Sep 9/06	Nov16/06	Apr25/08 -	Nov27/19 -	Jul8/24	
Alu	minun	n (ppn	n)					
40 Seve	ere							
30-								

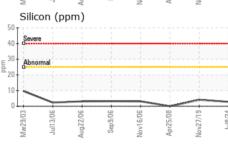
GRAPHS

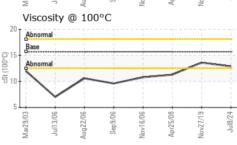


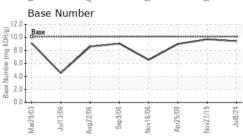
















Certificate 12367

Laboratory Sample No. Lab Number : 06235144

Test Package : MOB 2

: WC0919938 Unique Number : 11123978

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 12 Jul 2024 **Tested** : 15 Jul 2024 Diagnosed

: 15 Jul 2024 - Wes Davis

ALL ISLAND EQUIPMENT 39 JERSEY ST WEST BABYLON, NY US 11704 Contact: DARYL

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.

T: (631)643-2605 F: (631)643-4060

service@allislandequipment.com

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) Report Id: ALLWESUS [WUSCAR] 06235144 (Generated: 07/15/2024 13:34:47) Rev: 1

Contact/Location: DARYL - ALLWESUS