

PROBLEM SUMMARY

Sample Rating Trend

ISO

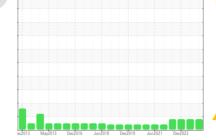
^{Area} **426**

61-62 MILL MOTOR

Component

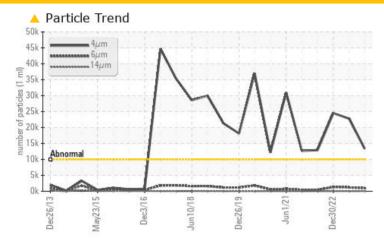
Outboard Journal Bearing

ESSO NUTO H ISO 68 (1 QTS)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST R	ESULTS				
Sample Status			ATTENTION	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>10000	13340	<u>^</u> 22799	<u>4</u> 24531
Oil Cleanliness	ISO 4406 (c)	>20/18/14	<u> </u>	22/17/12	<u>22/18/11</u>

Customer Id: BRIDES Sample No.: WC0838928 Lab Number: 06009525 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

05 Jul 2023 Diag: Angela Borella

ISO



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



30 Dec 2022 Diag: Angela Borella

ISO



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



06 Jul 2022 Diag: Doug Bogart

ISO

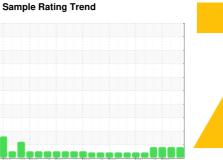


No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT



ISO



Area **426** 61-62 MILL MOTOR

Outboard Journal Bearing

ESSO NUTO H ISO 68 (1 QTS)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

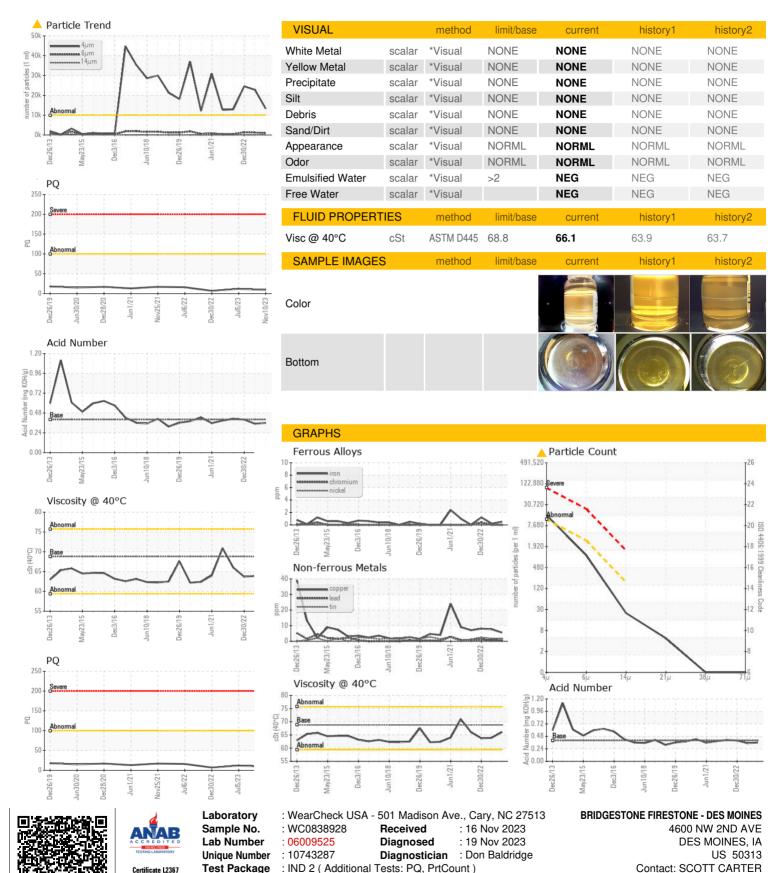
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sample Date Client Info 6	ec2013 May2015 Dec2016 Jun2018 Dec2018 Jun2021 Dec2022									
Sample Date Client Info 10 Nov 2023 05 Jul 2023 30 Dec 2022	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2			
Machine Age mths Client Info 6 0 6 Oil Age miths Client Info 0 6 0 Oil Changed Client Info Changed Changed Changed Sample Status Emethod limit/base current history1 history2 PQ ASTM D5185m 960 <1	Sample Number		Client Info		WC0838928	WC0397536	WC0640534			
Oil Changed Client Info Changed Changed Changed Changed Changed Changed Changed Changed Changed ABNORMAL ABNORMAL	Sample Date		Client Info		10 Nov 2023	05 Jul 2023	30 Dec 2022			
Oil Changed Sample Status Client Info Changed ATTENTION Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL Changed ABNORMAL ABNORMAL </th <th>Machine Age</th> <th>mths</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Machine Age	mths								
Sample Status method limit/base current history1 history2 PQ ASTM D8184 Iron 9 12 7 Iron ppm ASTM D8185m >60 <1 <1 1 Chromium ppm ASTM D8185m >20 0 0 <1 Nickel ppm ASTM D5185m >20 0 0 <0 Silver ppm ASTM D5185m 0 0 0 <1 Silver ppm ASTM D5185m 0 0 0 <1 Lead ppm ASTM D5185m ≥250 <1 <1 1 Copper ppm ASTM D5185m ≥250 <1 <1 1 Cadadium ppm ASTM D5185m ≥250 <1 <1 <1 Cadadium ppm ASTM D5185m >80 2 2 2 2 Vanadium ppm ASTM D5185m 0 0 <1 <1 <th>Oil Age</th> <th>mths</th> <th>Client Info</th> <th></th> <th></th> <th>6</th> <th>ū</th>	Oil Age	mths	Client Info			6	ū			
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PQ ASTM D8184 Iron 9 12 7 Iron ppm ASTM D5185m >60 <1	Sample Status				ATTENTION	ABNORMAL	ABNORMAL			
Irron	WEAR METALS		method	limit/base	current	history1	history2			
Chromium ppm ASTM D5185m >20 0 0 <1	PQ		ASTM D8184		-	12	7			
Nickel	Iron	ppm	ASTM D5185m	>60	<1	<1	1			
Titanium	Chromium	ppm	ASTM D5185m	>20	0	0	<1			
Silver ppm ASTM D5185m 0 0 0 Aluminum ppm ASTM D5185m >4 <1 <1 <1 Lead ppm ASTM D5185m >250 <1 <1 1 Copper ppm ASTM D5185m >250 <1 <1 1 Tin ppm ASTM D5185m >80 2 2 2 Vanadium ppm ASTM D5185m 0 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 <1 ADDITIVES method limit/base current history1 history2 </th <th>Nickel</th> <th>ppm</th> <th>ASTM D5185m</th> <th>>20</th> <th>0</th> <th>0</th> <th>0</th>	Nickel	ppm	ASTM D5185m	>20	0	0	0			
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Lead ppm ASTM D5185m >250 <1	Silver	ppm	ASTM D5185m		0	0	0			
Copper ppm ASTM D5185m >125 6 8 8 Tin ppm ASTM D5185m >80 2 2 2 Vanadium ppm ASTM D5185m 0 0 <1 <1 Cadmium ppm ASTM D5185m 0 0 <1 <1 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 <1 Manganese ppm ASTM D5185m 0 0 0 <1 Magnesium ppm ASTM D5185m 5 <1 0 3 Calcium ppm ASTM D5185m 50 41 48 55 Phosphorus ppm ASTM D5185m 30 319 332	Aluminum	ppm	ASTM D5185m	>4	<1	<1	<1			
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Cadmium ppm ASTM D5185m 0 <1	Tin	ppm	ASTM D5185m	>80	2	2	2			
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Barium ppm ASTM D5185m 0 7 0 2 Molybdenum ppm ASTM D5185m 0 0 0 <1	ADDITIVES		method	limit/base	current	history1	history2			
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Manganese ppm ASTM D5185m 0 0 <1	Barium	ppm	ASTM D5185m	0	7	0	2			
Magnesium ppm ASTM D5185m 5 <1	Molybdenum	ppm	ASTM D5185m	0	0	0	<1			
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Oil Cleanliness ISO 4406 (c) >20/18/14 21/17/12 22/ 17/12 22/ 18/11	Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m METHOD ASTM D5185m METHOD ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	330 420 3100 limit/base >50 >20 limit/base >10000 >2500 >160 >40	41 319 388 2941 current 2 0 <1 current 13340 949 21 4	48 332 439 2383 history1 2 0 1 history1 ▲ 22799 1198 24 4	55 346 463 2808 history2 3 0 2 history2 ▲ 24531 1325 19 5			
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FLUID DEGNADATION Method Ilmii/base current history i history 2	Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	330 420 3100 limit/base >50 >20 limit/base >10000 >2500 >160 >40 >10 >3	41 319 388 2941 current 2 0 <1 current 13340 949 21 4 0 0	48 332 439 2383 history1 2 0 1 history1 ▲ 22799 1198 24 4 0 0	55 346 463 2808 history2 3 0 2 history2 ▲ 24531 1325 19 5 0 0			
Acid Number (AN) mg KOH/g ASTM D8045 .40 0.36 0.35 0.40	Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	330 420 3100 limit/base >50 >20 limit/base >10000 >2500 >160 >40 >10 >3	41 319 388 2941 current 2 0 <1 current 13340 949 21 4 0 0	48 332 439 2383 history1 2 0 1 history1 ▲ 22799 1198 24 4 0 0	55 346 463 2808 history2 3 0 2 history2 ▲ 24531 1325 19 5 0 0			



OIL ANALYSIS REPORT



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)

Certificate L2367

CarterScottA@FirestoneAg.com

T: x:

F: x: