

OIL ANALYSIS REPORT

Sample Rating Trend



422 93-94 MILL MOTOR

Component Outboard Journal Bearing ESSO NUTO H ISO 68 (1 QTS)

Recommendation

Resample at the next service interval to monitor.

Wear

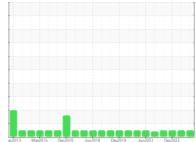
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

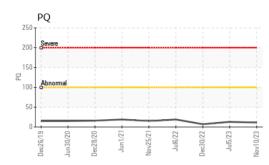


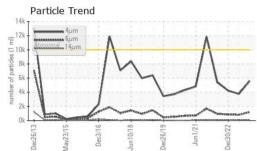


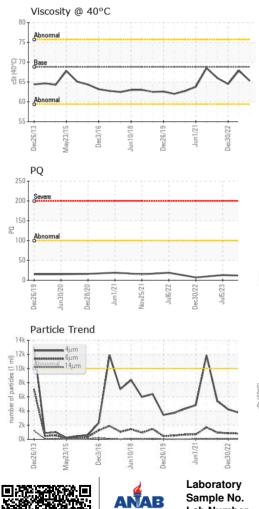
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0838843	WC0397542	WC0640532
Sample Date		Client Info		10 Nov 2023	05 Jul 2023	30 Dec 2022
Machine Age	mths	Client Info		6	0	6
Oil Age	mths	Client Info		0	6	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		11	13	7
Iron	ppm	ASTM D5185m	>60	<1	<1	<1
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>4	<1	<1	0
Lead	ppm	ASTM D5185m	>250	<1	<1	<1
Copper	ppm	ASTM D5185m	>125	3	1	2
Tin	ppm	ASTM D5185m	>80	<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	0	0	0	0
Barium	ppm	ASTM D5185m		7	0	1
Molybdenum	ppm	ASTM D5185m	0	0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m	5	<1	0	2
Calcium	ppm	ASTM D5185m	50	39	43	48
Phosphorus	ppm	ASTM D5185m	330	323	326	330
Zinc	ppm	ASTM D5185m	420	378	412	434
Sulfur	ppm	ASTM D5185m	3100	2381	2612	2625
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	8	2
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	1	2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	5589	3762	4221
Particles >6µm		ASTM D7647	>2500	1179	817	848
Particles >14µm		ASTM D7647	>160	81	65	57
Particles >21µm		ASTM D7647	>40	18	17	9
Particles >38µm		ASTM D7647	>10	1	3	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/14	20/17/14	19/17/13	19/17/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	.40	0.34	0.35	0.36



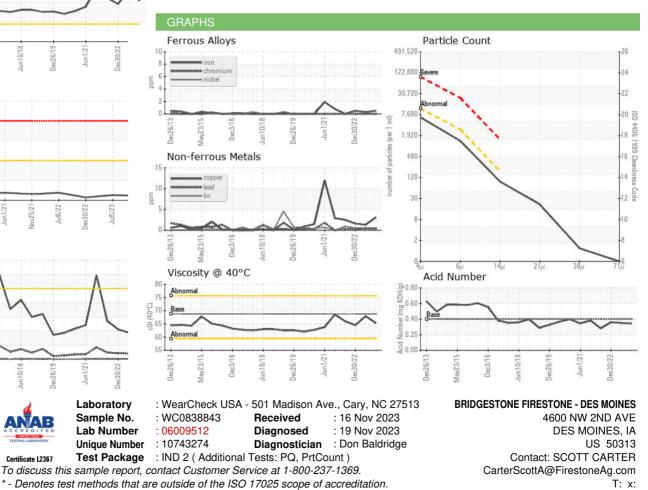
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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	>2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	68.8	65.3	67.9	64.5
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color				22(0) 41 Mile 10/2		
Bottom						



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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