OIL ANALYSIS REPORT

WEAR CONTAMINATION **FLUID CONDITION**

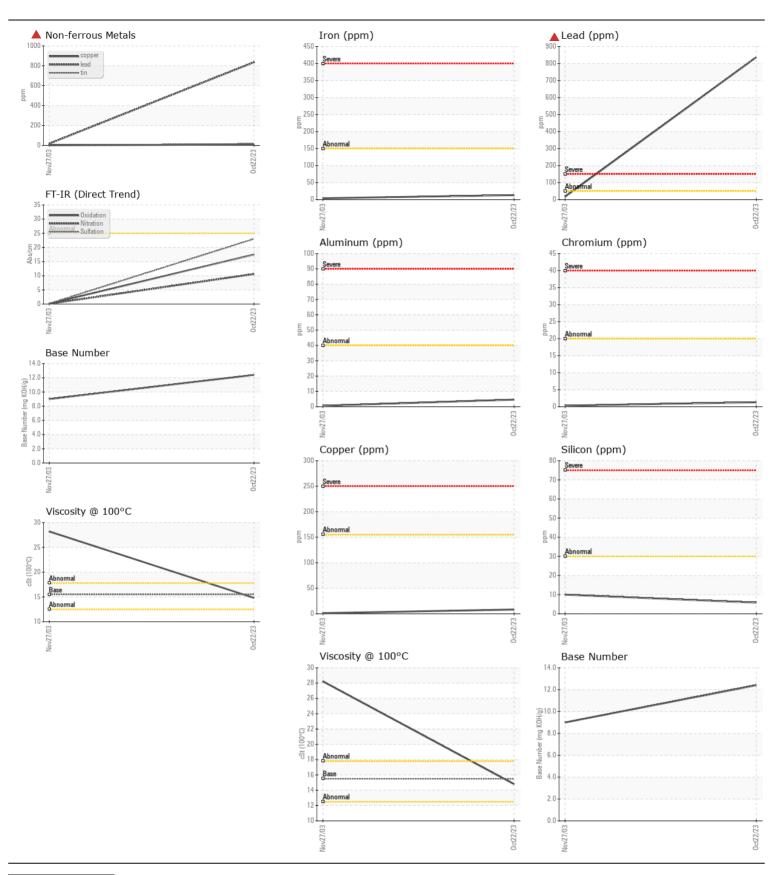
SEVERE NORMAL **NORMAL**

Machine Id

MERCURY 87

Component
Gasoline Engine
Fluid

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		TR05989915	TR00684068	
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Date		Client Info		22 Oct 2023	27 Nov 2003	
	Machine Age	mls	Client Info		13894	100275	
	Oil Age	mls	Client Info		1500	3625	
	Filter Age	mls	Client Info		1500	3625	
	Oil Changed		Client Info		Not Changd	Changed	
	Filter Changed		Client Info		Not Changd	_	
	Sample Status				SEVERE		
WEAR	Iron	ppm	ASTM D5185m	>150	13	4	
Bearing and/or bushing wear is indicated.	Chromium	ppm	ASTM D5185m	>20	1	<1	
	Nickel	ppm	ASTM D5185m	>5	0	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>2	0	0	
	Aluminum	ppm	ASTM D5185m	>40	5	<1	
	Lead	ppm	ASTM D5185m	>50	A 836	17	
	Copper	ppm	ASTM D5185m	>155	8	1	
	Tin	ppm	ASTM D5185m	>10	1 6	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTABUNATION			40TH DE (05		_	4.0	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	6	10	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	0	
	Fuel		WC Method	>4.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0	0	
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	0.10	
	Sulfation	Abs/.1mm	*ASTM D7415		23.0	0.13	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	nnm	ASTM D5185m	~ 400	4	2	
LOID CONDITION	Boron	ppm	ASTM D5185m	>400	<1	2	
The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		5	<1	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		58	110	
	Calcium	ppm	ASTM D5185m		4107	1682	
	Phosphorus	ppm	ASTM D5185m		1029	464	
	Zinc		ASTM D5185m		1512	496	
	Sulfur	ppm	ASTM D5185m		4777	2783	
	Oxidation	ppm Abs/.1mm	*ASTM D5165III	> 2F	4777 17.5	0.14	
	Base Number (BN)			>20	12.40	9.00	
	Dase Mullibel (DIN)	Hig KO⊓/g	49 LINI D5030		12.40	9.00	





Certificate L2367

Laboratory Sample No.

: TR05989915 Lab Number : 05989915 Unique Number : 10712577 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 25 Oct 2023 **Tested** : 26 Oct 2023

Diagnosed : 31 Oct 2023 - Jonathan Hester

P.O. BOX 366 HAW RIVER, NC US 27258 Contact: JIM WHITLOW

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To discuss this sample report, contact Customer Service at 1-800-827-0711. * - 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) F: (336)421-0527

Contact/Location: JIM WHITLOW - ACEHAW

JIM WHITLOW