



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD 663 - 32008
 Component
Gasoline Engine
 Fluid
GASOLINE ENGINE OIL SAE 5W20 (7 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		RW0004305	RW0004779	RW0004322
Sample Date		Client Info		03 Jan 2024	11 Sep 2023	05 Apr 2023
Machine Age	mls	Client Info		156416	152807	147300
Oil Age	mls	Client Info		3609	5507	6277
Filter Age	mls	Client Info		3609	5507	6277
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	8	17	22
Chromium	ppm	ASTM D5185m	>20	<1	1	2
Nickel	ppm	ASTM D5185m	>5	<1	<1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>40	2	0	5
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>155	<1	0	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

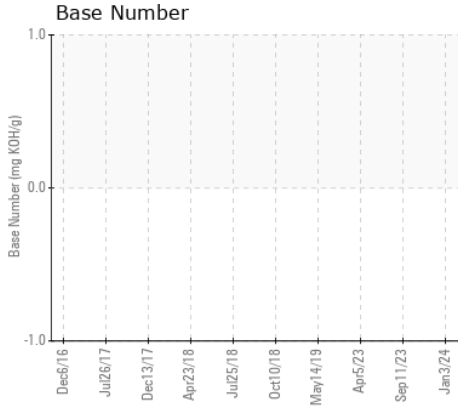
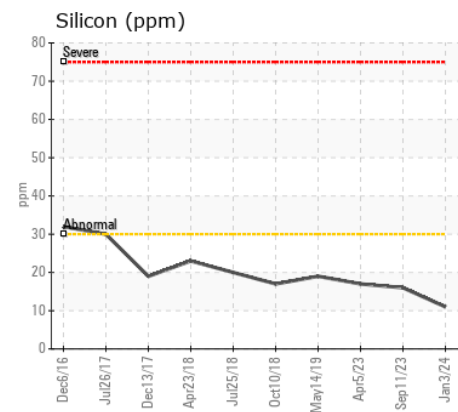
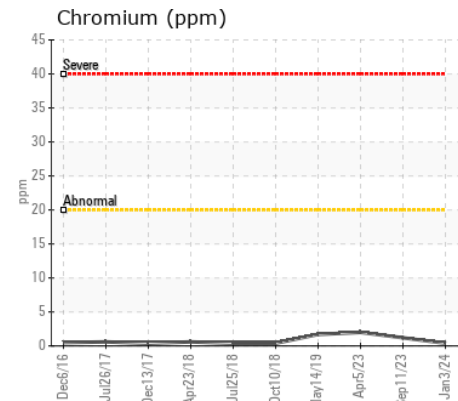
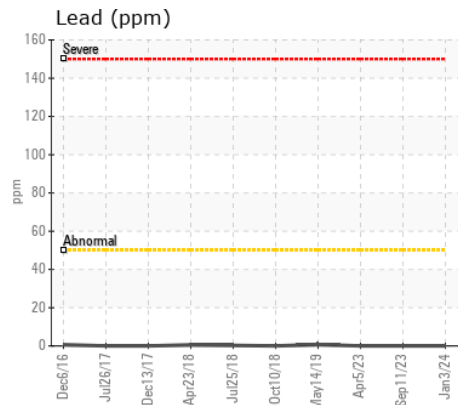
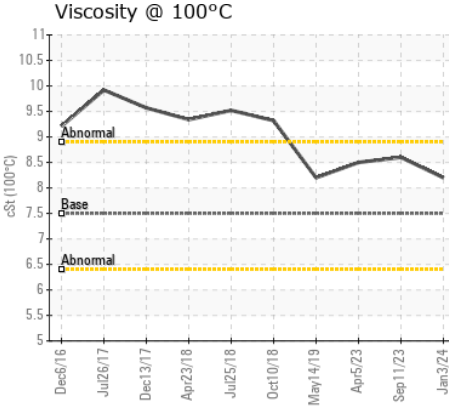
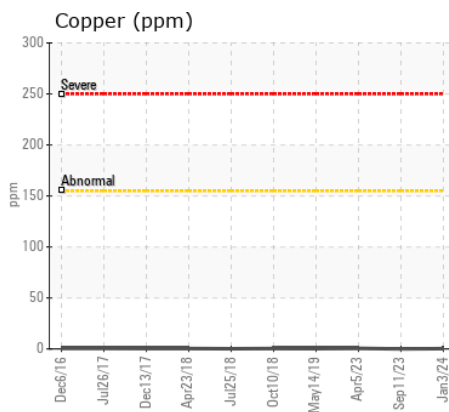
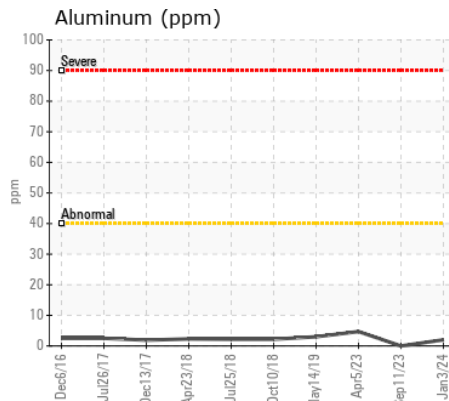
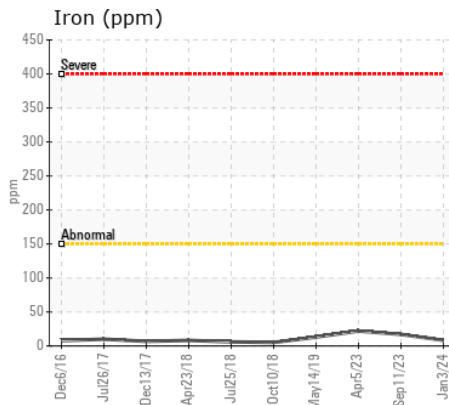
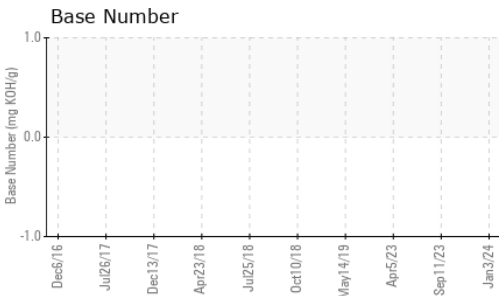
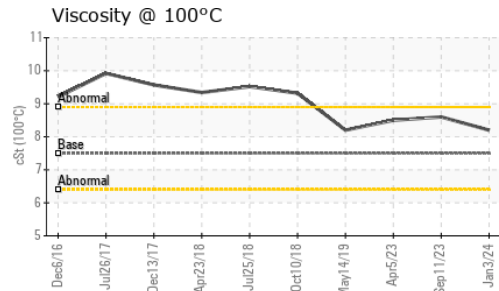
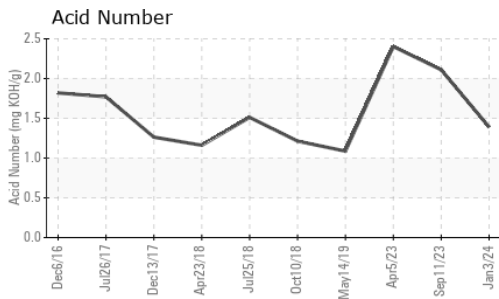
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>30	11	16	17
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.0	13.9	15.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	25.1	26.1
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m	>50	3	13	19
Boron	ppm	ASTM D5185m	75	33	25	31
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	100	83	82	86
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	12	500	577	670
Calcium	ppm	ASTM D5185m	2100	1075	1177	1269
Phosphorus	ppm	ASTM D5185m	650	732	691	829
Zinc	ppm	ASTM D5185m	850	821	916	1022
Sulfur	ppm	ASTM D5185m	2500	2697	3562	3792
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	18.9	20.4
Acid Number (AN)	mg KOH/g	ASTM D8045		1.39	2.11	2.403
Visc @ 100°C	cSt	ASTM D445	7.5	8.2	8.6	8.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RW0004305 **Received** : 10 Jan 2024
Lab Number : 06057434 **Diagnosed** : 12 Jan 2024
Unique Number : 10823383 **Diagnostician** : Sean Felton
Test Package : MOB 2 (Additional Tests: TBN)

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Certificate L2367
 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)