



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD F550 V100
 Component
Rear Differential
 Fluid
GEAR OIL SAE 80W140 (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206195	JR0156085	JR0086728
Sample Date		Client Info		11 Apr 2024	23 Jan 2023	02 Jun 2021
Machine Age	mls	Client Info		295091	282840	266282
Oil Age	mls	Client Info		7157	63523	46965
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		76	80	94
Iron	ppm	ASTM D5185m	>1206	245	184	269
Chromium	ppm	ASTM D5185m	>9	<1	1	2
Nickel	ppm	ASTM D5185m	>9	0	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	1
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>72	6	4	8
Lead	ppm	ASTM D5185m	>56	0	0	<1
Copper	ppm	ASTM D5185m	>57	2	2	2
Tin	ppm	ASTM D5185m	>6	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	MODER	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

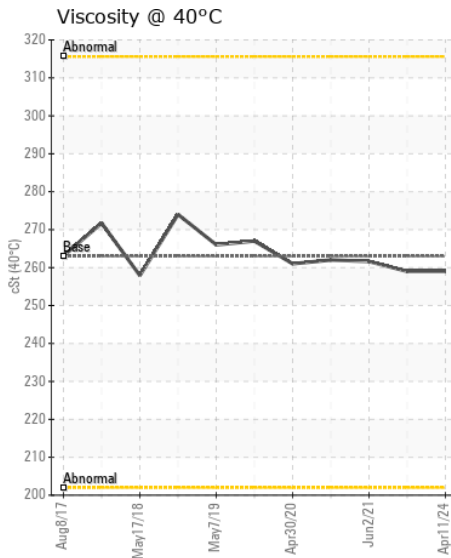
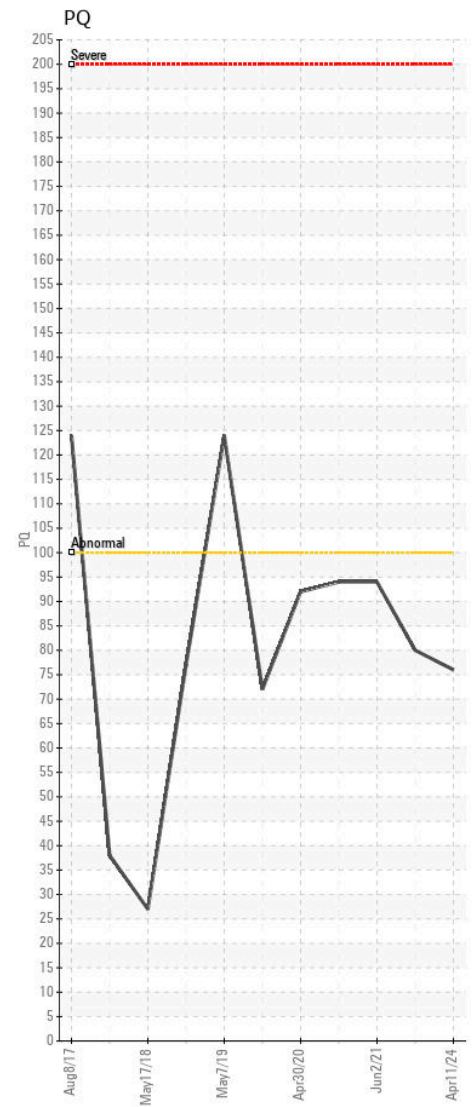
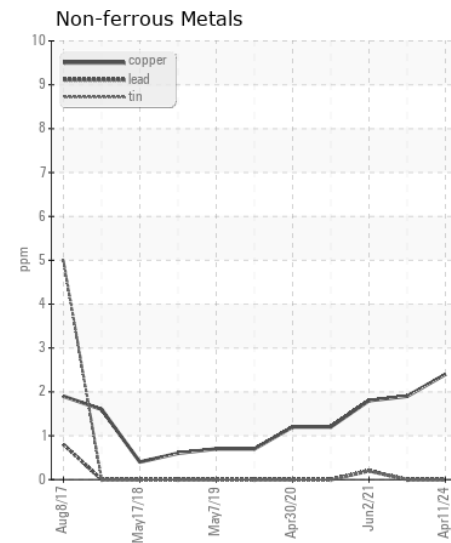
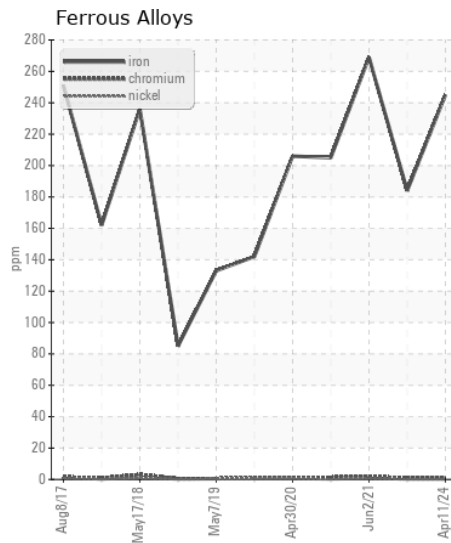
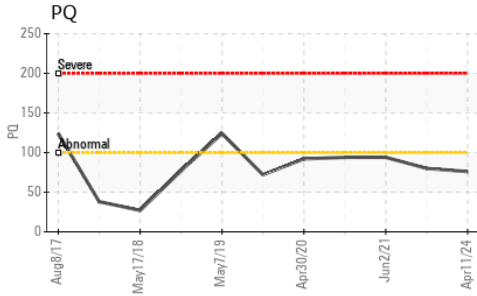
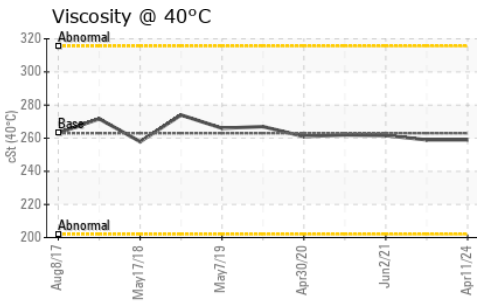
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>344	15	17	23
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>.2	NEG	NEG	NEG
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

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	0	1
Boron	ppm	ASTM D5185m	400	216	230	288
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	<1
Manganese	ppm	ASTM D5185m		3	3	4
Magnesium	ppm	ASTM D5185m	12	5	<1	3
Calcium	ppm	ASTM D5185m	150	54	17	13
Phosphorus	ppm	ASTM D5185m	1650	1102	906	1005
Zinc	ppm	ASTM D5185m	125	18	5	1
Sulfur	ppm	ASTM D5185m	22500	18058	19634	17082
Visc @ 40°C	cSt	ASTM D445	263	259	259	261.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206195 **Received** : 17 Apr 2024
Lab Number : 06152263 **Tested** : 18 Apr 2024
Unique Number : 10982341 **Diagnosed** : 18 Apr 2024 - Wes Davis
Test Package : CONST (Additional Tests: PQ)

MATTHEWS CONSTRUCTION
 127 GRAYSON RD
 ROCK HILL, SC
 US 29732
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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)