



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD F550 V51

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		JR0198938	JR0171680	JR0115401
Sample Date		Client Info		16 Jan 2024	16 Jun 2023	29 Jun 2022
Machine Age	mls	Client Info		219893	214715	209038
Oil Age	mls	Client Info		15824	10646	4969
Filter Age	mls	Client Info		0	0	4969
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Changed	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		22	16	22
Iron	ppm	ASTM D5185m	>1206	42	54	33
Chromium	ppm	ASTM D5185m	>9	<1	1	<1
Nickel	ppm	ASTM D5185m	>9	0	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>72	4	4	3
Lead	ppm	ASTM D5185m	>56	0	0	0
Copper	ppm	ASTM D5185m	>57	0	<1	<1
Tin	ppm	ASTM D5185m	>6	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

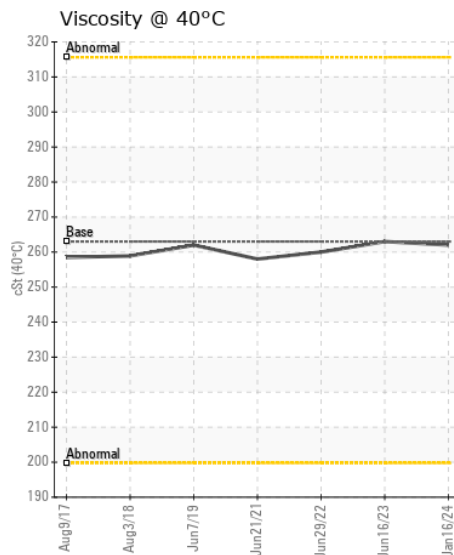
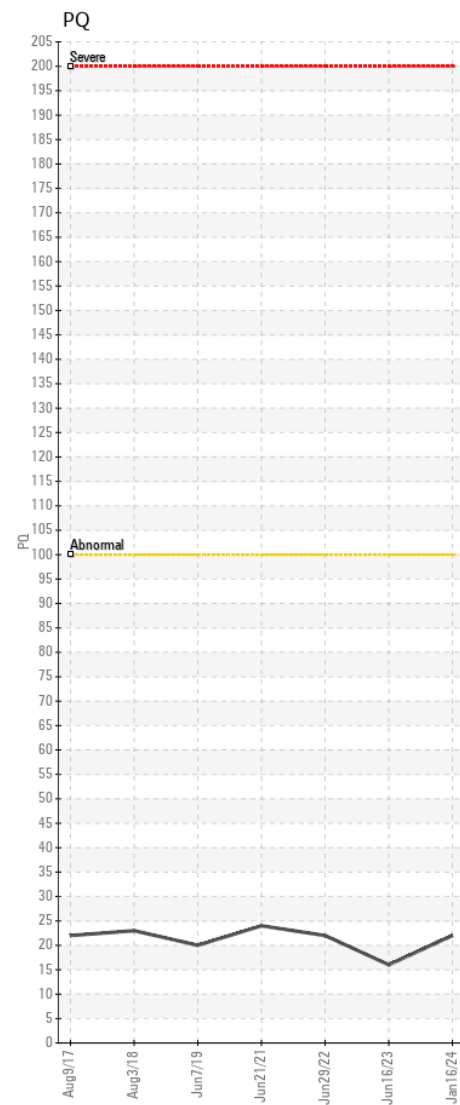
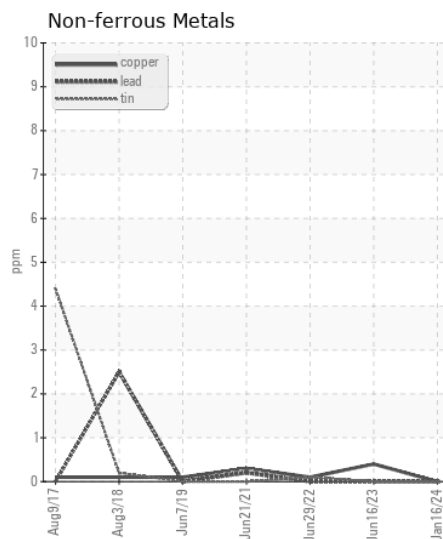
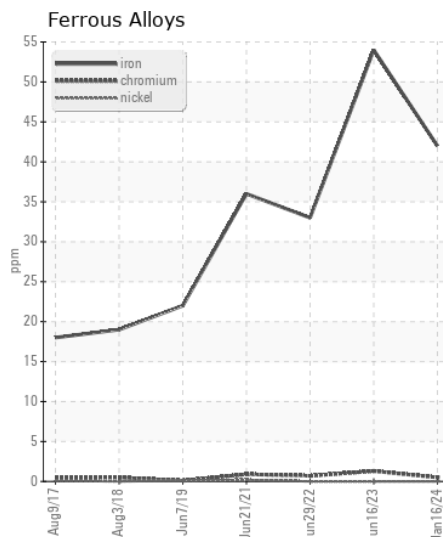
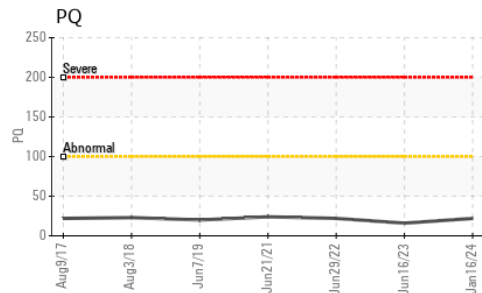
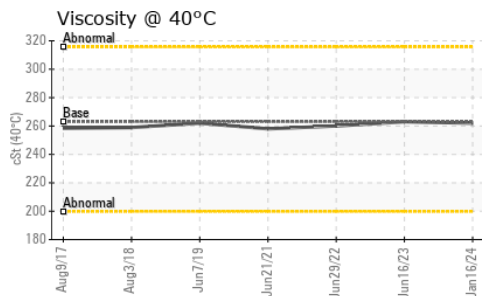
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>344	25	31	18
Potassium	ppm	ASTM D5185m	>20	0	1	0
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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		2	2	1
Boron	ppm	ASTM D5185m	400	247	378	250
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		<1	1	<1
Magnesium	ppm	ASTM D5185m	12	<1	4	0
Calcium	ppm	ASTM D5185m	150	0	11	17
Phosphorus	ppm	ASTM D5185m	1650	1026	1308	797
Zinc	ppm	ASTM D5185m	125	0	12	8
Sulfur	ppm	ASTM D5185m	22500	17874	27911	18067
Visc @ 40°C	cSt	ASTM D445	263	262	263	260



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0198938

Lab Number : 06082819

Unique Number : 10870264

Test Package : CONST (Additional Tests: PQ)

Received : 07 Feb 2024

Tested : 08 Feb 2024

Diagnosed : 08 Feb 2024 - Wes Davis

MATTHEWS CONSTRUCTION

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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)