



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id
FORD F-150 V119
 Component
Rear Differential
 Fluid
GEAR OIL SAE 80W140 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

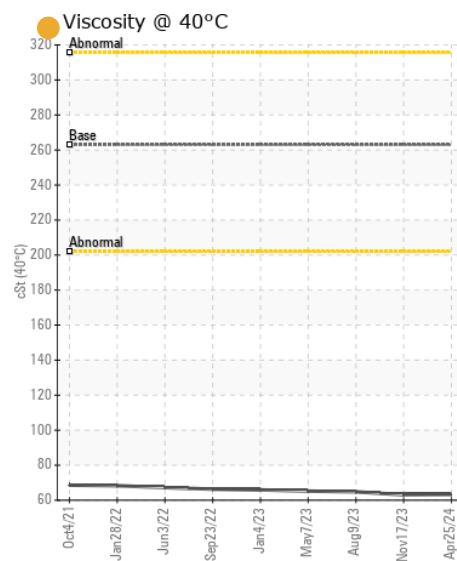
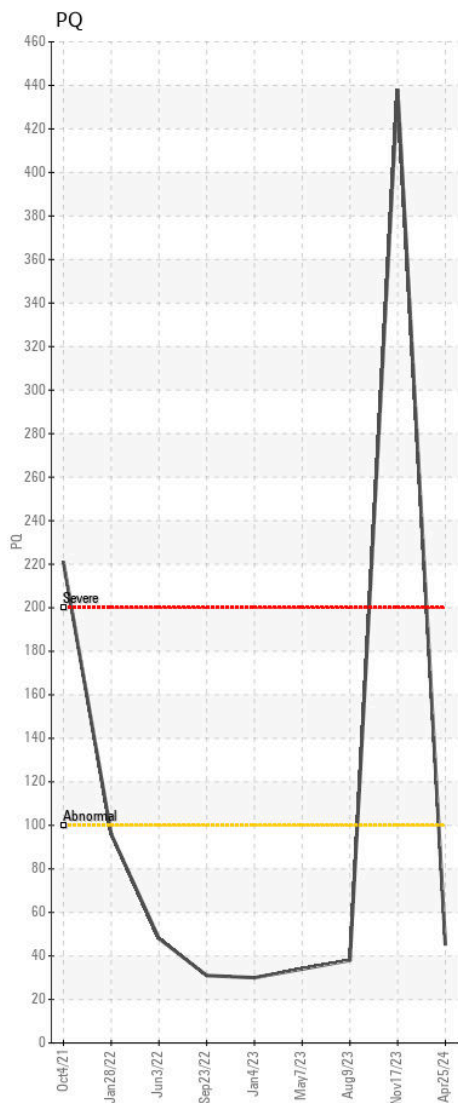
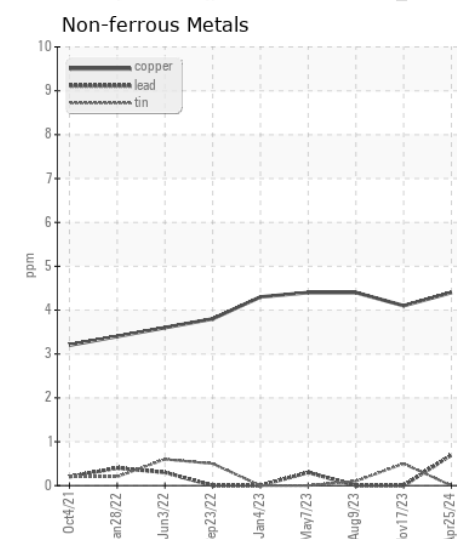
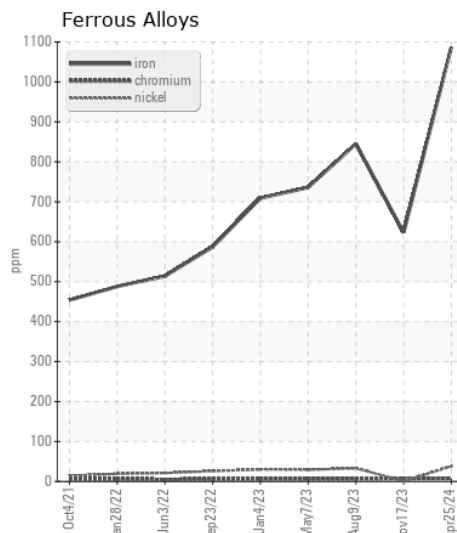
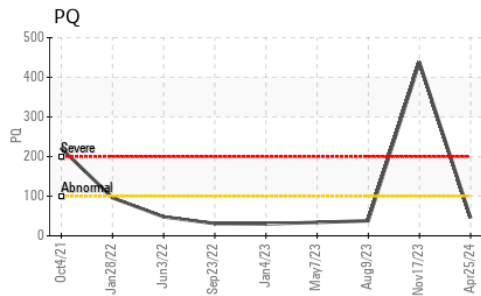
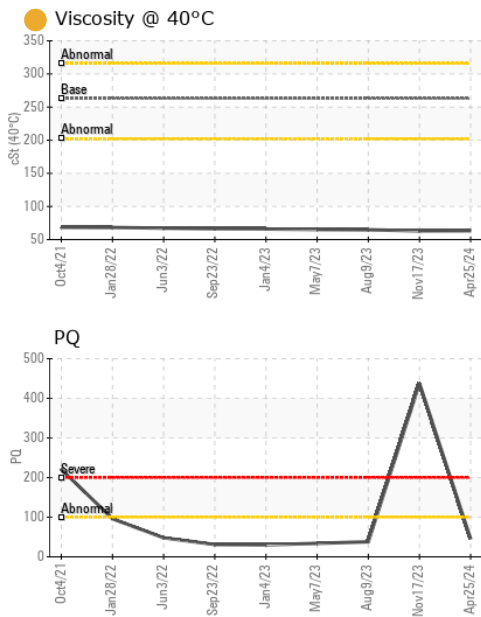
The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0206132	JR0178494	JR0178849
Sample Date		Client Info		25 Apr 2024	17 Nov 2023	09 Aug 2023
Machine Age	mls	Client Info		84540	73005	64415
Oil Age	mls	Client Info		84540	8590	64415
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Filter Changed		Client Info		Changed	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ATTENTION

PQ		ASTM D8184		45	438	38
Iron	ppm	ASTM D5185m	>500	1087	623	845
Chromium	ppm	ASTM D5185m	>10	8	7	6
Nickel	ppm	ASTM D5185m	>10	38	<1	33
Titanium	ppm	ASTM D5185m		16	2	15
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	5	2
Lead	ppm	ASTM D5185m	>25	<1	0	0
Copper	ppm	ASTM D5185m	>100	4	4	4
Tin	ppm	ASTM D5185m	>10	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	21	▲ 78	19
Potassium	ppm	ASTM D5185m	>20	5	2	4
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

Sodium	ppm	ASTM D5185m		8	8	7
Boron	ppm	ASTM D5185m	400	101	154	114
Barium	ppm	ASTM D5185m	200	14	0	0
Molybdenum	ppm	ASTM D5185m	12	4	0	5
Manganese	ppm	ASTM D5185m		23	14	18
Magnesium	ppm	ASTM D5185m	12	3	<1	0
Calcium	ppm	ASTM D5185m	150	17	12	17
Phosphorus	ppm	ASTM D5185m	1650	1480	1299	1331
Zinc	ppm	ASTM D5185m	125	40	110	18
Sulfur	ppm	ASTM D5185m	22500	25653	17924	23960
Visc @ 40°C	cSt	ASTM D445	263	● 63.3	● 63.1	● 64.8



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206132 **Received** : 09 May 2024
Lab Number : 06174193 **Tested** : 10 May 2024
Unique Number : 11020246 **Diagnosed** : 12 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

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)