James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

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

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

Metal levels are typical for a new component breaking in.

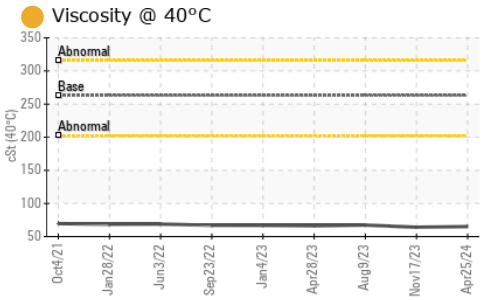
CONTAMINATION

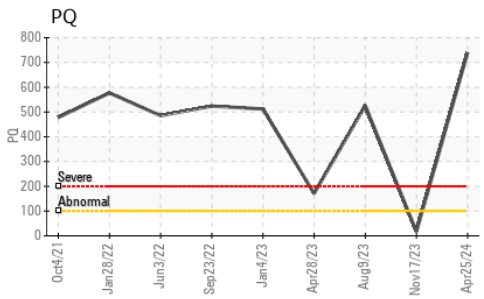
There is no indication of any contamination in the oil.

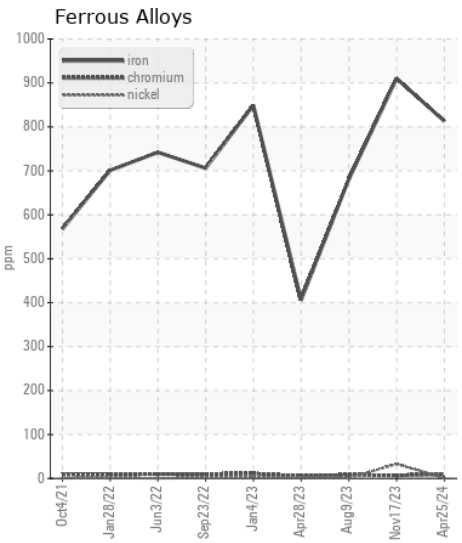
FLUID CONDITION

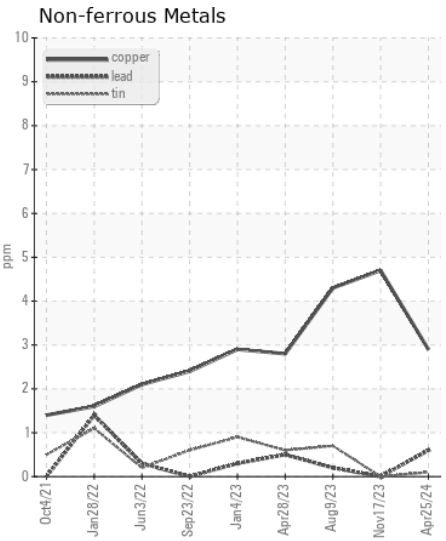
The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is suitable for further service.

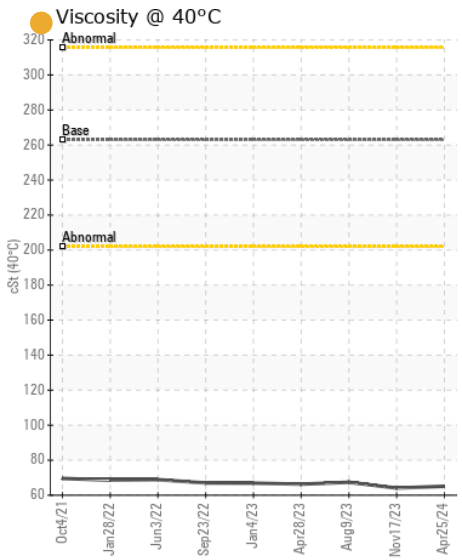
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0206144**	JR0178492	JR0101707
Sample Date		Client Info		**25 Apr 2024**	17 Nov 2023	09 Aug 2023
Machine Age	mls	Client Info		**84540**	73005	64415
Oil Age	mls	Client Info		**84540**	8590	64415
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	N/A	N/A
Sample Status				**ATTENTION**	ABNORMAL	ATTENTION
PQ		ASTM D8184		**740**	17	526
Iron	ppm	ASTM D5185m	>1206	**813**	▲ 910	681
Chromium	ppm	ASTM D5185m	>9	**10**	7	8
Nickel	ppm	ASTM D5185m	>9	**<1**	▲ 33	<1
Titanium	ppm	ASTM D5185m		**2**	14	2
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>72	**7**	<1	7
Lead	ppm	ASTM D5185m	>56	**<1**	0	<1
Copper	ppm	ASTM D5185m	>57	**3**	5	4
Tin	ppm	ASTM D5185m	>6	**<1**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>344	**99**	19	73
Potassium	ppm	ASTM D5185m	>20	**3**	3	3
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**	11	9
Boron	ppm	ASTM D5185m	400	**171**	98	194
Barium	ppm	ASTM D5185m	200	**3**	9	0
Molybdenum	ppm	ASTM D5185m	12	**0**	4	0
Manganese	ppm	ASTM D5185m		**16**	20	14
Magnesium	ppm	ASTM D5185m	12	**9**	0	5
Calcium	ppm	ASTM D5185m	150	**22**	10	55
Phosphorus	ppm	ASTM D5185m	1650	**1375**	1378	1322
Zinc	ppm	ASTM D5185m	125	**33**	19	25
Sulfur	ppm	ASTM D5185m	22500	**24071**	20298	23805
Visc @ 40°C	cSt	ASTM D445	263	**65.1**	64.1	67.4

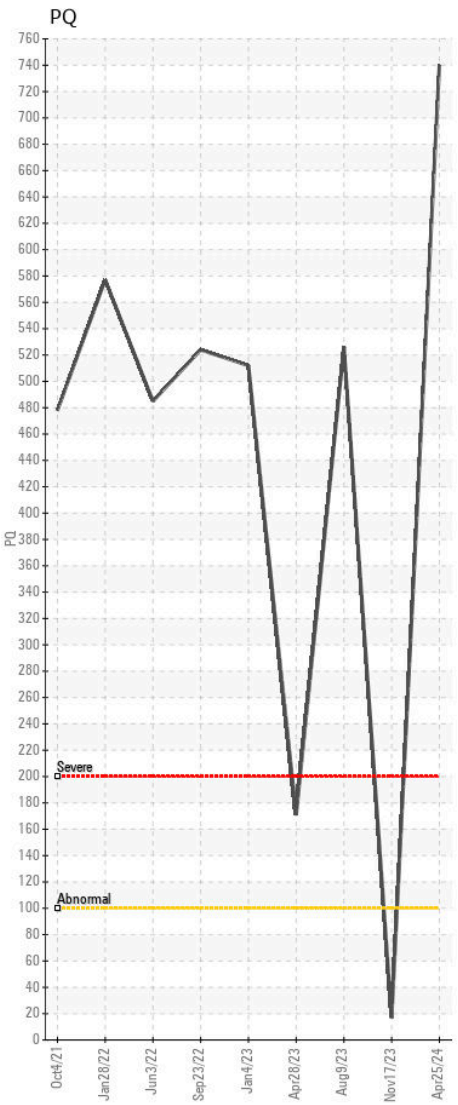












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0206144
Lab Number : 06174191
Unique Number : 11020244
Test Package : CONST (Additional Tests: PQ)

Received : 09 May 2024
Tested : 10 May 2024
Diagnosed : 12 May 2024 - Don Baldridge

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)

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