James River Equipment

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD F150 V101
Component
Rear Differential
Fluid
GEAR OIL SAE 80W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

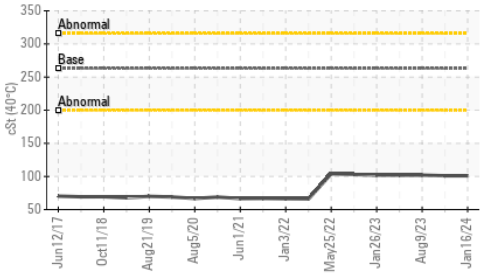
There is no indication of any contamination in the oil.

FLUID CONDITION

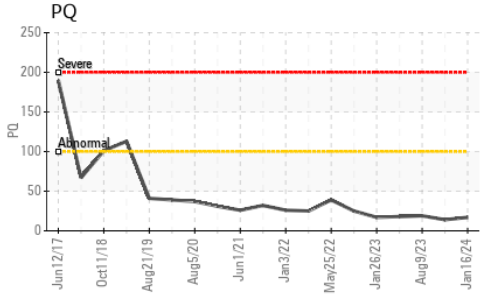
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**JR0193337**	JR0144760	JR0178981
Sample Date		Client Info		**16 Jan 2024**	20 Oct 2023	09 Aug 2023
Machine Age	mls	Client Info		**114673**	109183	104052
Oil Age	mls	Client Info		**20687**	35966	5256
Filter Age	mls	Client Info		**0**	0	0
Oil Changed		Client Info		**Not Changd**	Not Changd	Not Changd
Filter Changed		Client Info		**Changed**	Changed	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
PQ		ASTM D8184		**17**	14	19
Iron	ppm	ASTM D5185m	>1206	**108**	107	104
Chromium	ppm	ASTM D5185m	>9	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>9	**11**	11	10
Titanium	ppm	ASTM D5185m		**2**	2	2
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>72	**3**	3	4
Lead	ppm	ASTM D5185m	>56	**0**	0	0
Copper	ppm	ASTM D5185m	>57	**0**	<1	<1
Tin	ppm	ASTM D5185m	>6	**<1**	<1	<1
Vanadium	ppm	ASTM D5185m		**0**	0	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>344	**122**	137	119
Potassium	ppm	ASTM D5185m	>20	**0**	0	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
Sodium	ppm	ASTM D5185m		**1**	<1	<1
Boron	ppm	ASTM D5185m	400	**239**	252	302
Barium	ppm	ASTM D5185m	200	**0**	0	0
Molybdenum	ppm	ASTM D5185m	12	**0**	0	<1
Manganese	ppm	ASTM D5185m		**4**	4	4
Magnesium	ppm	ASTM D5185m	12	**1**	0	0
Calcium	ppm	ASTM D5185m	150	**0**	15	8
Phosphorus	ppm	ASTM D5185m	1650	**1422**	1426	1340
Zinc	ppm	ASTM D5185m	125	**0**	7	0
Sulfur	ppm	ASTM D5185m	22500	**23273**	22520	25056
Visc @ 40°C	cSt	ASTM D445	263	**101**	101	102

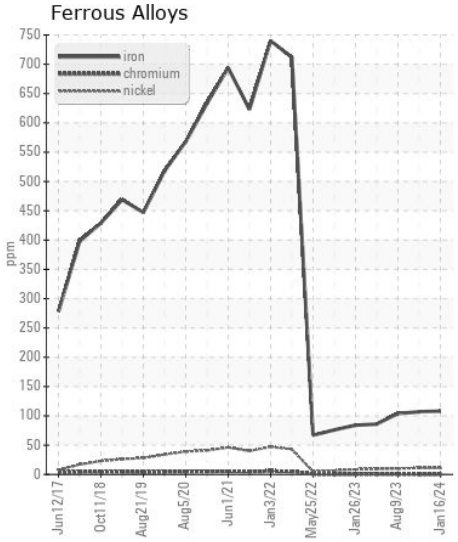
Viscosity @ 40°C



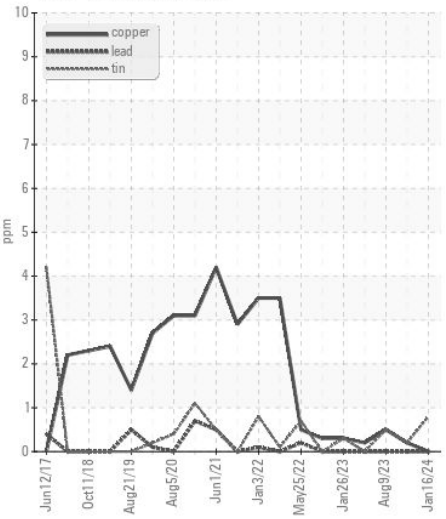
PQ



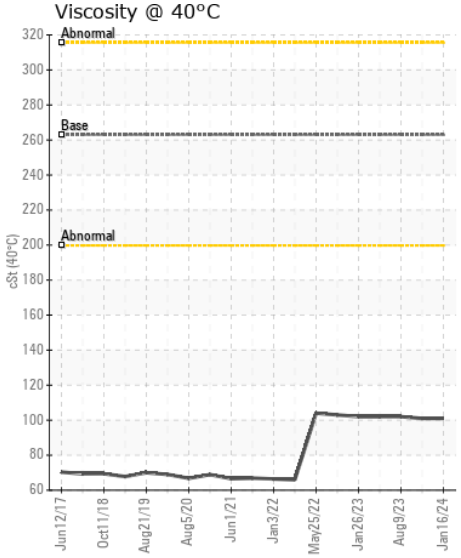
Ferrous Alloys



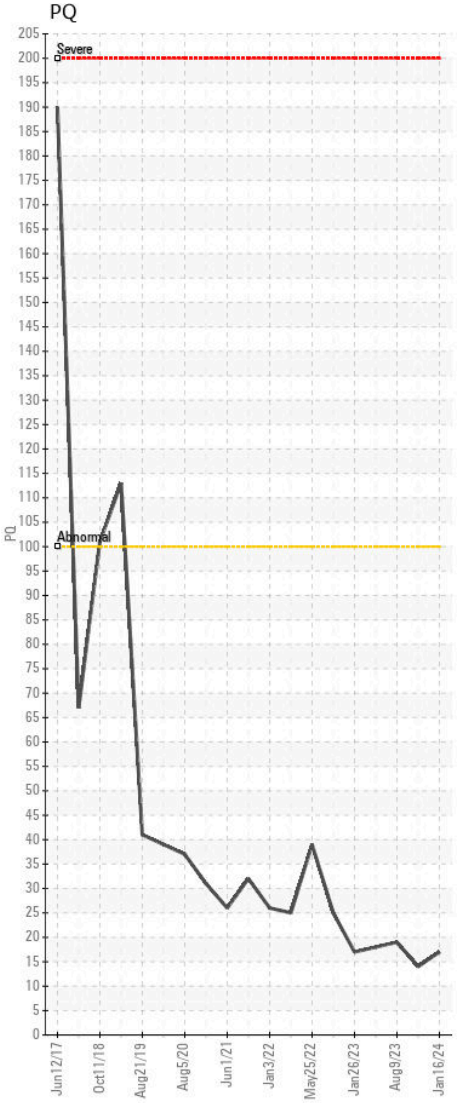
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0193337
Lab Number : 06082802
Unique Number : 10870247
Test Package : CONST (Additional Tests: PQ)

Received : 07 Feb 2024
Tested : 08 Feb 2024
Diagnosed : 09 Feb 2024 - Sean Felton

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)

MATTHEWS CONSTRUCTION
127 GRAYSON RD
ROCK HILL, SC
US 29732
Contact: Tad Clinton
tclinton@matthewsconstructionco.com
T: (803)207-5607
F: