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 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

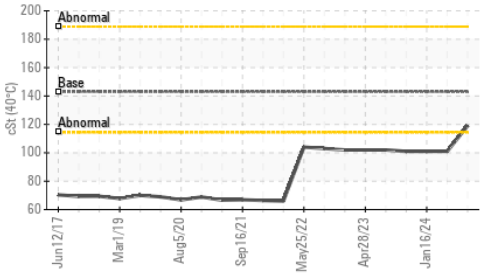
There is no indication of any contamination in the oil.

FLUID CONDITION

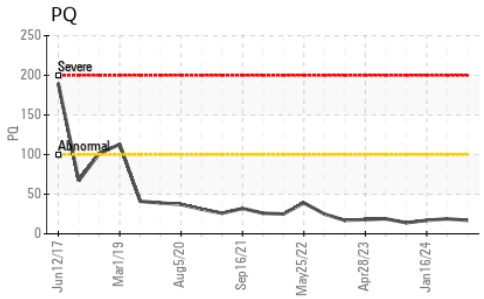
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0219622	JR0198402	JR0193337
Sample Date		Client Info		21 Jun 2024	04 Apr 2024	16 Jan 2024
Machine Age	mls	Client Info		124797	119627	114673
Oil Age	mls	Client Info		5170	46410	20687
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
PQ		ASTM D8184		17	19	17
Iron	ppm	ASTM D5185m	>1206	148	236	108
Chromium	ppm	ASTM D5185m	>9	<1	1	<1
Nickel	ppm	ASTM D5185m	>9	10	12	11
Titanium	ppm	ASTM D5185m		2	2	2
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>72	6	4	3
Lead	ppm	ASTM D5185m	>56	0	0	0
Copper	ppm	ASTM D5185m	>57	<1	<1	0
Tin	ppm	ASTM D5185m	>6	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>344	114	124	122
Potassium	ppm	ASTM D5185m	>20	2	<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
Sodium	ppm	ASTM D5185m	>170	0	<1	1
Boron	ppm	ASTM D5185m	400	237	235	239
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	0	0
Manganese	ppm	ASTM D5185m		3	5	4
Magnesium	ppm	ASTM D5185m	12	0	2	1
Calcium	ppm	ASTM D5185m	150	0	14	0
Phosphorus	ppm	ASTM D5185m	1650	1375	1410	1422
Zinc	ppm	ASTM D5185m	125	0	9	0
Sulfur	ppm	ASTM D5185m	22500	22081	27890	23273
Visc @ 40°C	cSt	ASTM D445	143	119	101	101

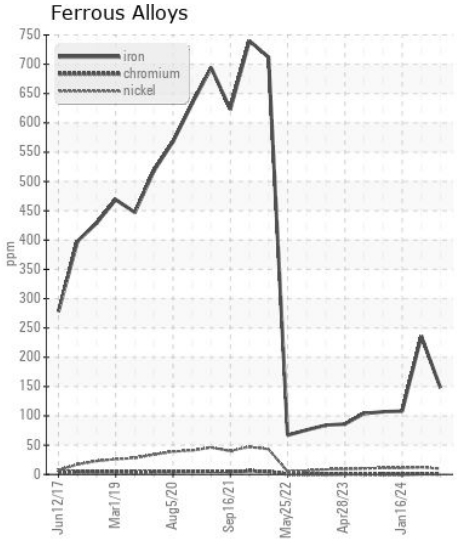
Viscosity @ 40°C



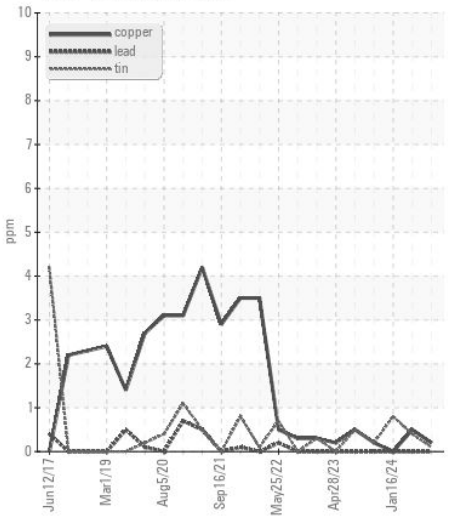
PQ



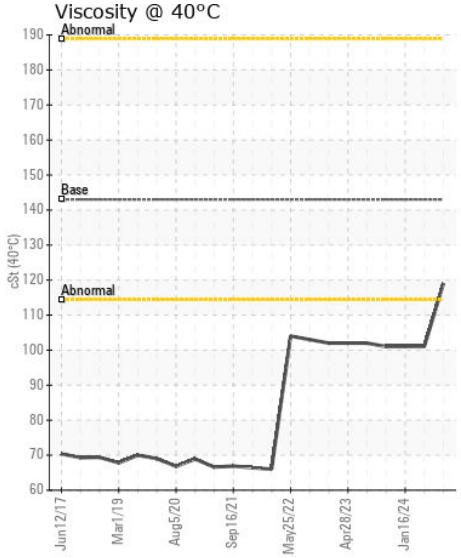
Ferrous Alloys



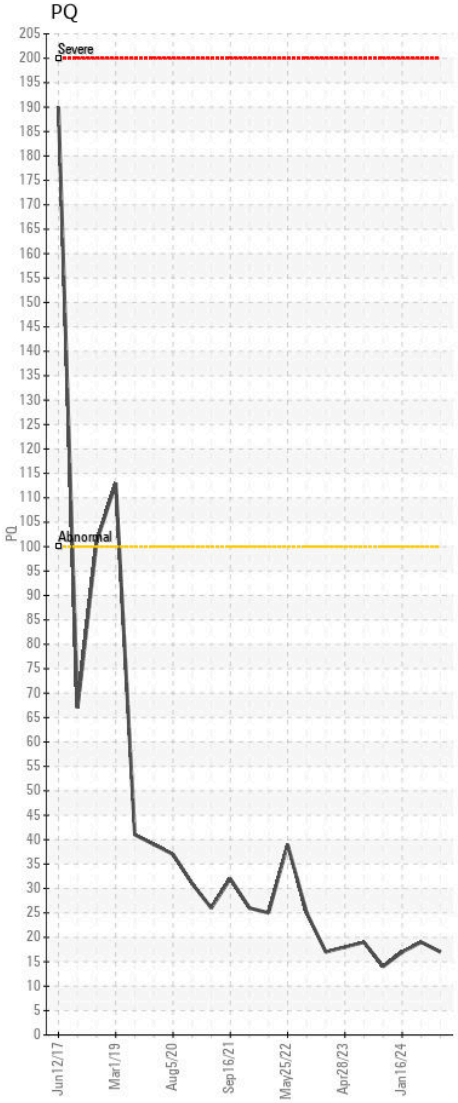
Non-ferrous Metals



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513			**MATTHEWS CONSTRUCTION**
Sample No.	: JR0219622	**Received**	: 02 Jul 2024	127 GRAYSON RD
Lab Number	: 06226546	**Tested**	: 03 Jul 2024	ROCK HILL, SC
Unique Number	: 11110039	**Diagnosed**	: 05 Jul 2024 - Don Baldridge	US 29732
Test Package	: CONST (Additional Tests: PQ)			Contact: Tad Clinton

To discuss this sample report, contact Customer Service at 1-800-237-1369. tclinton@matthewsconstructionco.com

** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.* T: (803)207-5607

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: