



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

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

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0219615	JR0204187	JR0193332
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

WEAR

All component wear rates are normal.

PQ		ASTM D8184		17	35	58
Iron	ppm	ASTM D5185m	>1206	10	28	31
Chromium	ppm	ASTM D5185m	>9	<1	0	<1
Nickel	ppm	ASTM D5185m	>9	0	0	0
Titanium	ppm	ASTM D5185m		25	48	51
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>72	3	2	2
Lead	ppm	ASTM D5185m	>56	0	0	0
Copper	ppm	ASTM D5185m	>57	0	<1	<1
Tin	ppm	ASTM D5185m	>6	0	0	0
Vanadium	ppm	ASTM D5185m		<1	<1	<1
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.

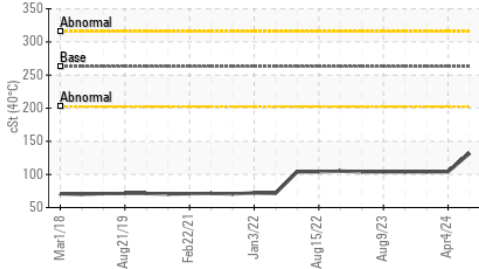
Silicon	ppm	ASTM D5185m	>344	8	14	12
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.2	NEG	NEG	NEG

FLUID CONDITION

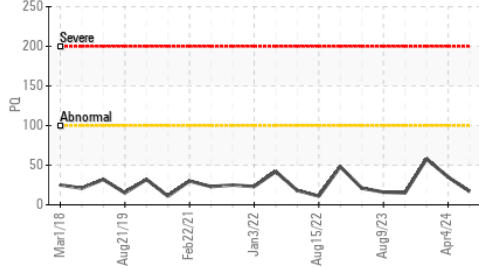
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<1	1	<1
Boron	ppm	ASTM D5185m	400	258	307	305
Barium	ppm	ASTM D5185m	200	0	0	2
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		<1	3	2
Magnesium	ppm	ASTM D5185m	12	0	0	0
Calcium	ppm	ASTM D5185m	150	0	5	30
Phosphorus	ppm	ASTM D5185m	1650	1163	1403	1222
Zinc	ppm	ASTM D5185m	125	0	0	0
Sulfur	ppm	ASTM D5185m	22500	18662	27681	23234
Visc @ 40°C	cSt	ASTM D445	263	132	104	104

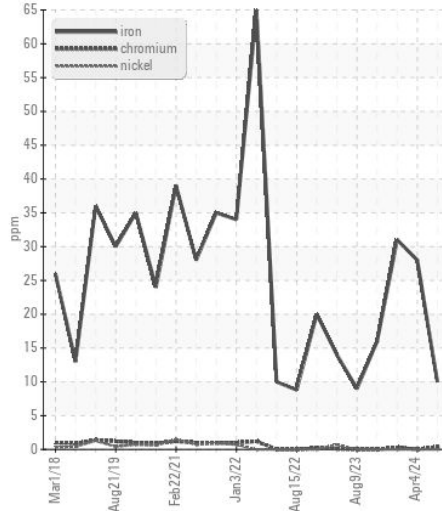
Viscosity @ 40°C



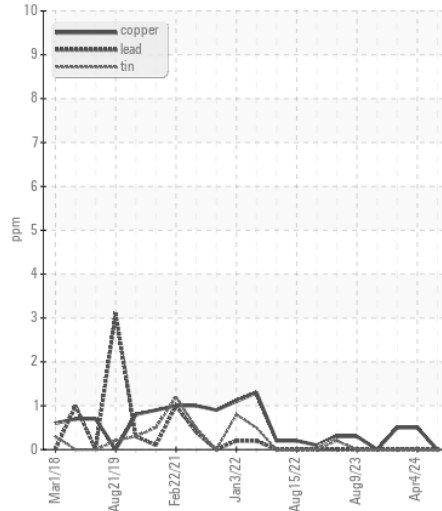
PQ



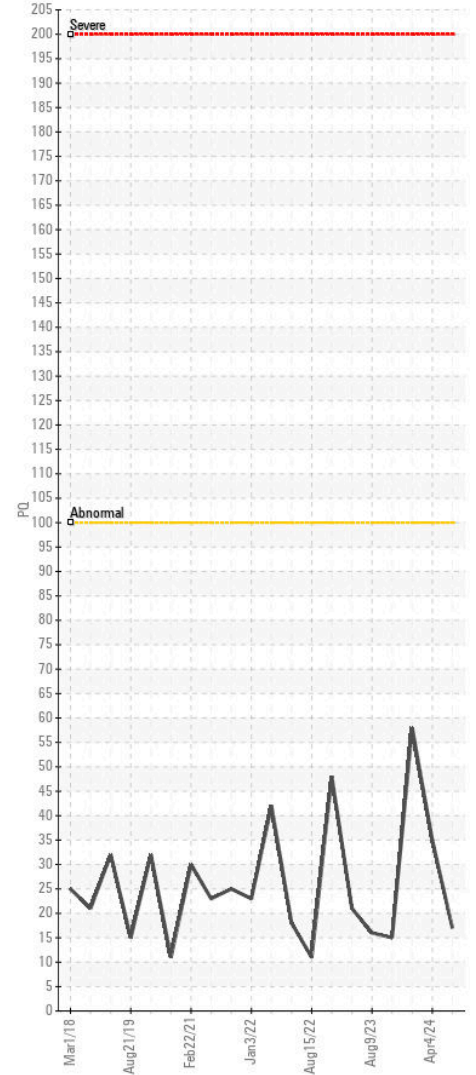
Ferrous Alloys



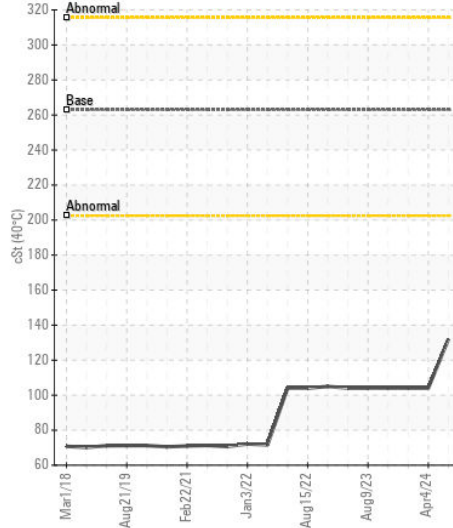
Non-ferrous Metals



PQ



Viscosity @ 40°C



Certificate L2367

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

Sample No. : JR0219615

Lab Number : 06226541

Unique Number : 11110034

Test Package : CONST (Additional Tests: PQ)

Received : 02 Jul 2024

Tested : 03 Jul 2024

Diagnosed : 05 Jul 2024 - Don Baldrige

MATTHEWS CONSTRUCTION

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US 29732

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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)