

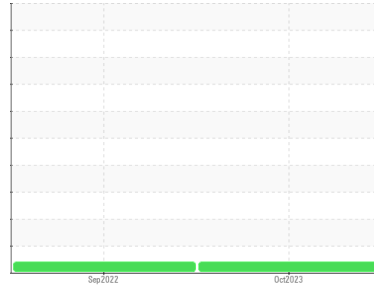


PROBLEM SUMMARY

Sample Rating Trend

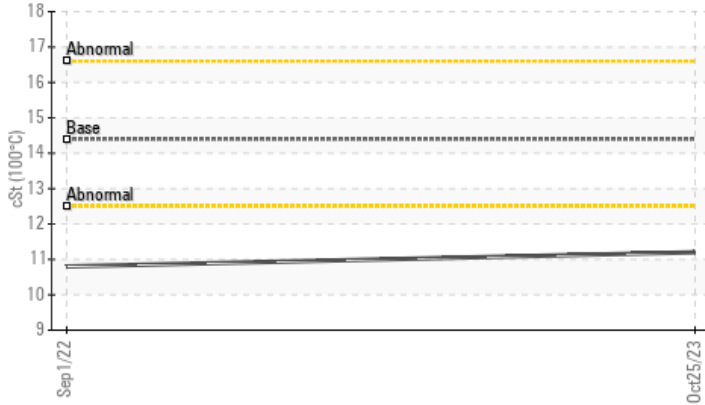
VISCOSITY

Area
2H28
 Machine Id
FORD W5G -550 CHASSI FBK6202 (S/N 1FD0W5GT2KEC15019)
 Component
Diesel Engine
 Fluid
 DIESEL ENGINE OIL SAE 5W40 (--- QTS)



COMPONENT CONDITION SUMMARY

▲ Viscosity @ 100°C



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		ATTENTION		ATTENTION		---	
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.2	▲ 10.8	---	---

Customer Id: AR1050BRI
 Sample No.: ARI0006447
 Lab Number: 06007484
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +1
don.b505@comcast.net

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

01 Sep 2022 Diag: Jonathan Hester

VISCOSITY



The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

view report



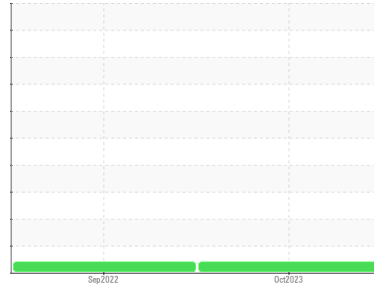


OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area
2H28
 Machine Id
FORD W5G -550 CHASSI FBK6202 (S/N 1FD0W5GT2KEC15019)
 Component
Diesel Engine
 Fluid
DISEL ENGINE OIL SAE 5W40 (--- QTS)



DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		ARI0006447	ARI0006408	---
Sample Date	Client Info		25 Oct 2023	01 Sep 2022	---
Machine Age	mls	Client Info	140100	108505	---
Oil Age	mls	Client Info	32000	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			ATTENTION	ATTENTION	---

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	21	29	---
Chromium	ppm	ASTM D5185m >20	<1	<1	---
Nickel	ppm	ASTM D5185m >2	0	0	---
Titanium	ppm	ASTM D5185m >2	<1	<1	---
Silver	ppm	ASTM D5185m >2	0	0	---
Aluminum	ppm	ASTM D5185m >25	3	4	---
Lead	ppm	ASTM D5185m >40	0	<1	---
Copper	ppm	ASTM D5185m >330	<1	3	---
Tin	ppm	ASTM D5185m >15	<1	0	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	18	10	---
Barium	ppm	ASTM D5185m 10	4	6	---
Molybdenum	ppm	ASTM D5185m 100	41	61	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m 450	895	820	---
Calcium	ppm	ASTM D5185m 3000	1213	1221	---
Phosphorus	ppm	ASTM D5185m 1150	1088	1014	---
Zinc	ppm	ASTM D5185m 1350	1306	1212	---
Sulfur	ppm	ASTM D5185m 4250	3331	3535	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	8	9	---
Sodium	ppm	ASTM D5185m >44	<1	0	---
Potassium	ppm	ASTM D5185m >20	1	2	---
Fuel	%	ASTM D3524 >5	<1.0	1.5	---

INFRA-RED

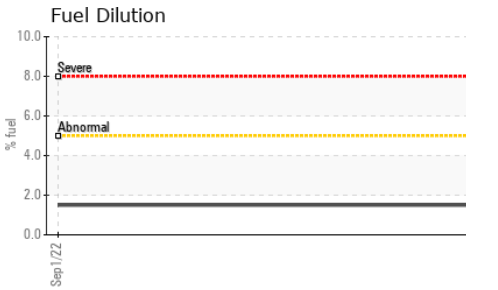
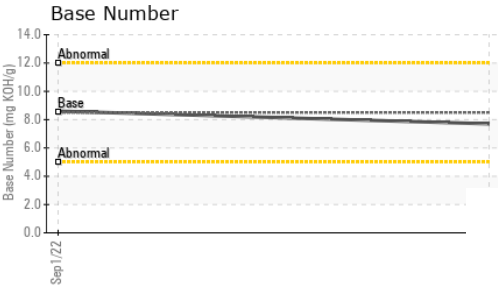
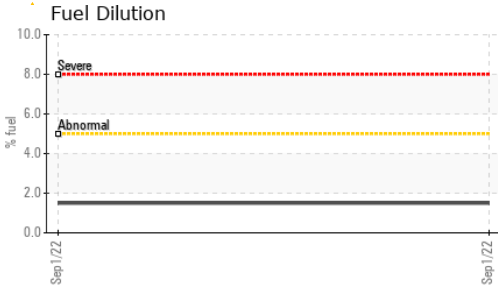
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.5	0.6	---
Nitration	Abs/cm	*ASTM D7624 >20	10.6	11.4	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.0	22.6	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.6	20.3	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	7.7	8.6	---



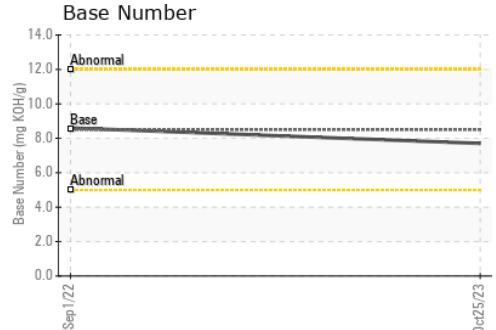
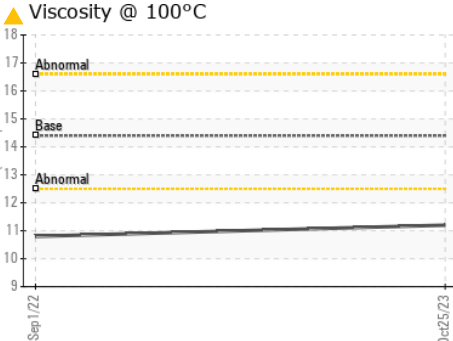
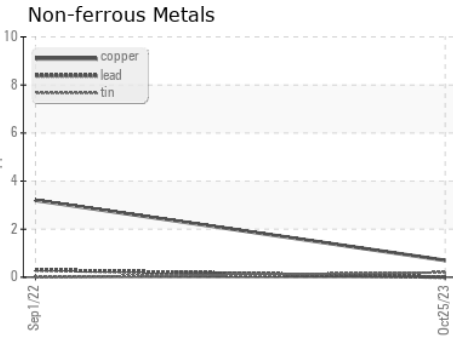
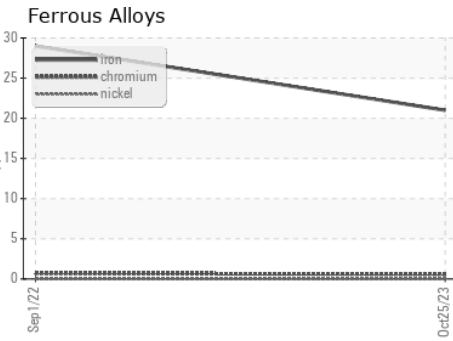
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 11.2	▲ 10.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ARI0006447 **Received** : 14 Nov 2023
Lab Number : 06007484 **Diagnosed** : 16 Nov 2023
Unique Number : 10741246 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: FuelDilution, TBN)

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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)