



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FORD F650-1
 Component
Diesel Engine
 Fluid
{not provided} (8 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		IL0036554	IL0028241	---
Sample Date		Client Info		19 Feb 2024	12 Jan 2023	---
Machine Age	mls	Client Info		12097	6546	---
Oil Age	mls	Client Info		3209	6546	---
Filter Age	mls	Client Info		3209	6546	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185m	>100	16	53	---
Chromium	ppm	ASTM D5185m	>20	<1	2	---
Nickel	ppm	ASTM D5185m	>2	0	0	---
Titanium	ppm	ASTM D5185m	>2	0	<1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>25	3	15	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	2	34	---
Tin	ppm	ASTM D5185m	>15	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

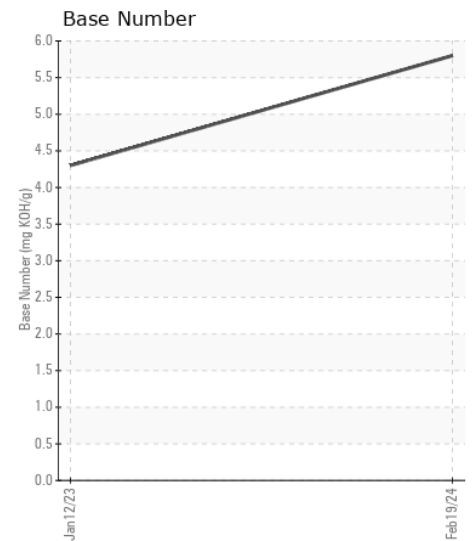
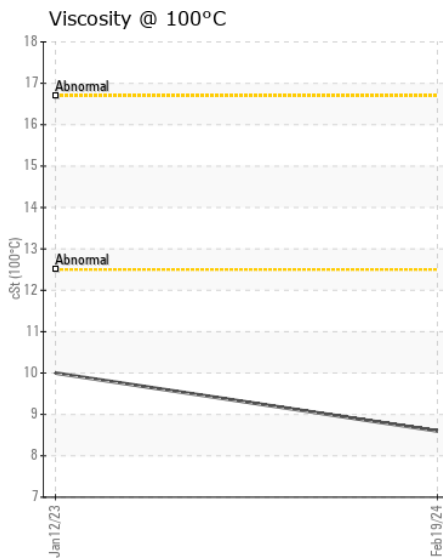
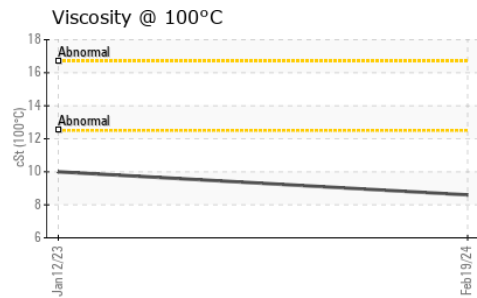
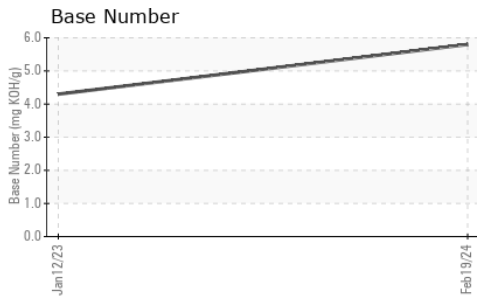
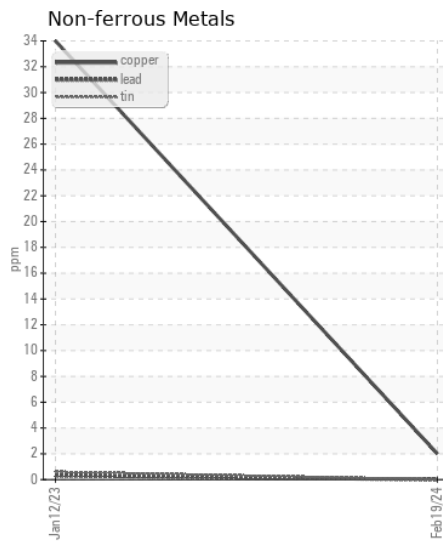
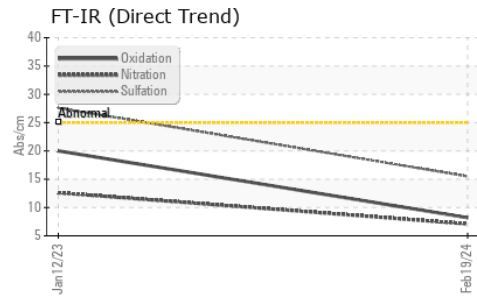
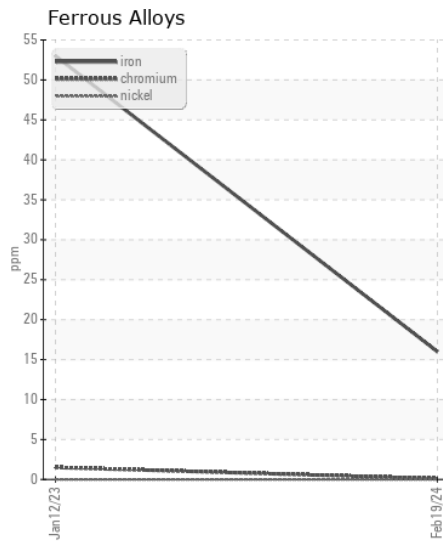
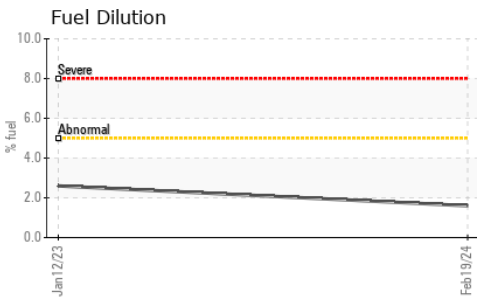
Fuel content negligible. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185m	>25	12	81	---
Potassium	ppm	ASTM D5185m	>20	4	7	---
Fuel	%	ASTM D3524	>5	1.6	2.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	7.1	12.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.5	27.6	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		4	8	---
Boron	ppm	ASTM D5185m		165	44	---
Barium	ppm	ASTM D5185m		0	3	---
Molybdenum	ppm	ASTM D5185m		71	151	---
Manganese	ppm	ASTM D5185m		<1	5	---
Magnesium	ppm	ASTM D5185m		541	352	---
Calcium	ppm	ASTM D5185m		956	1329	---
Phosphorus	ppm	ASTM D5185m		685	672	---
Zinc	ppm	ASTM D5185m		781	791	---
Sulfur	ppm	ASTM D5185m		3148	2519	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	8.2	20.0	---
Base Number (BN)	mg KOH/g	ASTM D2896		5.8	4.3	---
Visc @ 100°C	cSt	ASTM D445		8.6	10.0	---



Certificate L2367

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

Sample No. : IL0036554

Lab Number : 06158302

Unique Number : 10993725

Test Package : FLEET (Additional Tests: FuelDilution, PercentFuel)

Received : 23 Apr 2024

Tested : 25 Apr 2024

Diagnosed : 25 Apr 2024 - Sean Felton

RUSH TRUCK LEASING - CLEVELAND IDEALEASE

5 ACORN DR

OAKWOOD VILLAGE, OH

US 44146-5550

Contact: JOHN FOSTER

FosterJ4@RushEnterprises.com

T: (440)359-7000

F: (440)439-5657

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)