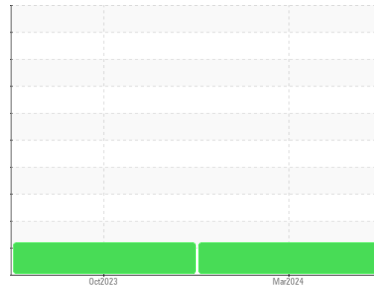




OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
FORD 30145
 Component
Gasoline Engine
 Fluid
KENDALL 5W30 (--- 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

Light fuel dilution occurring.

● 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			WC0867759	WC0867797	---
Sample Date	Client Info			29 Mar 2024	26 Oct 2023	---
Machine Age	mls Client Info			116233	111476	---
Oil Age	mls Client Info			4757	6041	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				ATTENTION	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	NEG	NEG	---
Glycol	WC Method			NEG	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	5	12	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		1	1	---
Silver	ppm	ASTM D5185m	>2	0	0	---
Aluminum	ppm	ASTM D5185m	>40	2	3	---
Lead	ppm	ASTM D5185m	>50	<1	<1	---
Copper	ppm	ASTM D5185m	>155	7	12	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
Cadmium	ppm	ASTM D5185m		0	<1	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		28	21	---
Barium	ppm	ASTM D5185m		0	5	---
Molybdenum	ppm	ASTM D5185m		116	122	---
Manganese	ppm	ASTM D5185m		2	2	---
Magnesium	ppm	ASTM D5185m		367	335	---
Calcium	ppm	ASTM D5185m		1279	1157	---
Phosphorus	ppm	ASTM D5185m		570	671	---
Zinc	ppm	ASTM D5185m		781	697	---
Sulfur	ppm	ASTM D5185m		3311	3002	---

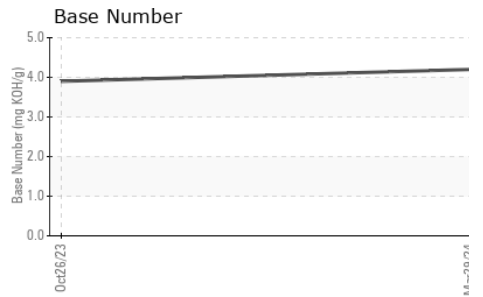
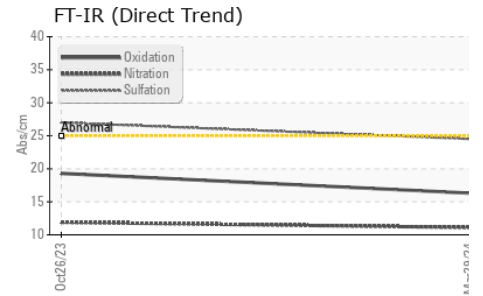
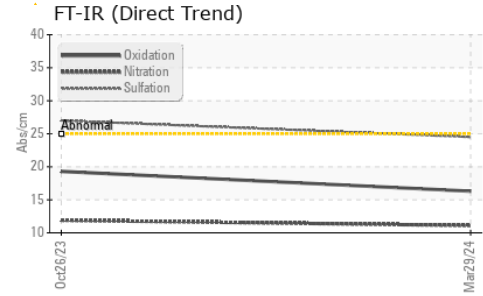
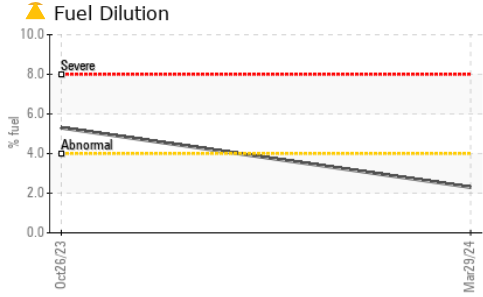
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	11	16	---
Sodium	ppm	ASTM D5185m	>400	2	2	---
Potassium	ppm	ASTM D5185m	>20	1	3	---
Fuel	%	ASTM D3524	>4.0	▲ 2.3	▲ 5.3	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0.1	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	11.1	11.9	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.5	27.0	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	19.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		4.2	3.9	---



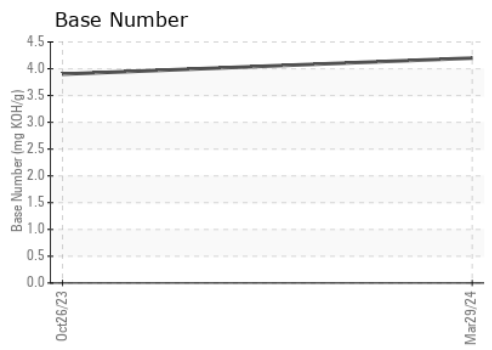
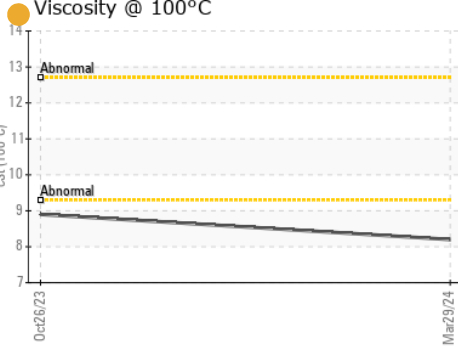
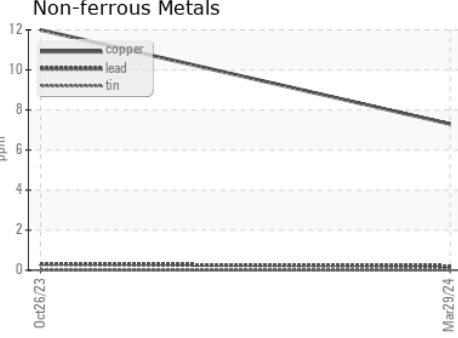
OIL ANALYSIS REPORT



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	● 8.2	▲ 8.9	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0867759 **Received** : 04 Apr 2024
Lab Number : 06139222 **Tested** : 09 Apr 2024
Unique Number : 10964030 **Diagnosed** : 09 Apr 2024 - Jonathan Hester
Test Package : FLEET (Additional Tests: PercentFuel)

GREENEVILLE OIL & PETROLEUM INC
 860 WEST ANDREW JOHNSON HWY
 GREENEVILLE, TN
 US 37745
 Contact: SHOP
 shop@burkharterprises.com

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)