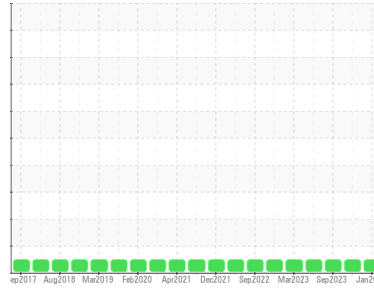




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[MN-26901]
 Machine Id
KEN F-150

Component
Gasoline Engine
 Fluid
KENDALL GT-1 HIGH PERFORMANCE SYNTH 5W20 (8 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Engine Hours: 2616. RUL: 55%)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0680179	WC0680178	WC0680176
Sample Date	Client Info		25 Jan 2024	16 Nov 2023	22 Sep 2023
Machine Age	mls	Client Info	100619	96167	91613
Oil Age	mls	Client Info	4452	4554	5748
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	6	3	7
Chromium	ppm	ASTM D5185m >20	<1	<1	<1
Nickel	ppm	ASTM D5185m >5	0	<1	<1
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >40	2	3	2
Lead	ppm	ASTM D5185m >50	<1	0	0
Copper	ppm	ASTM D5185m >155	1	<1	2
Tin	ppm	ASTM D5185m >10	<1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	37	26	21
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	118	116	100
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	430	421	395
Calcium	ppm	ASTM D5185m	1148	1177	1192
Phosphorus	ppm	ASTM D5185m 770	617	629	621
Zinc	ppm	ASTM D5185m 850	725	764	766
Sulfur	ppm	ASTM D5185m	1785	1914	2210

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	6	5	8
Sodium	ppm	ASTM D5185m >400	1	0	3
Potassium	ppm	ASTM D5185m >20	2	<1	9

INFRA-RED

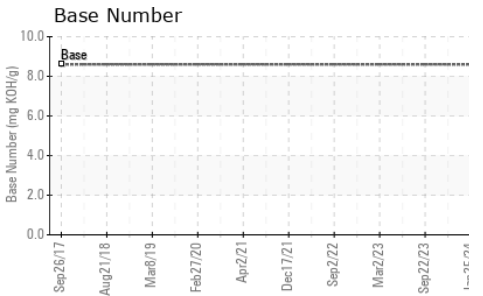
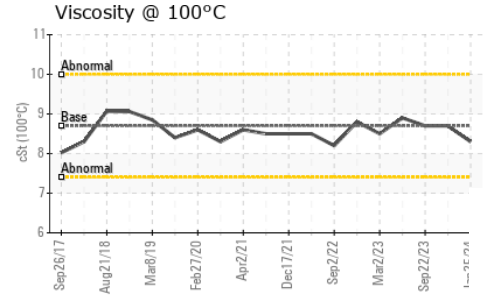
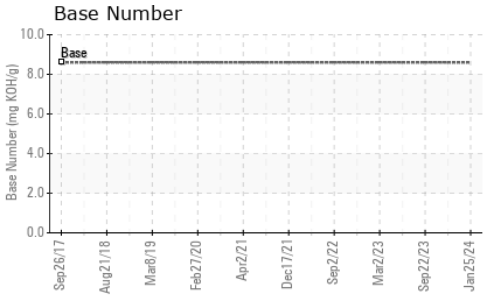
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	0
Nitration	Abs/cm	*ASTM D7624 >20	7.8	7.8	8.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	18.1	18.5	19.2

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	10.5	11.1	12.0
Acid Number (AN)	mg KOH/g	ASTM D8045	1.17	1.07	1.490



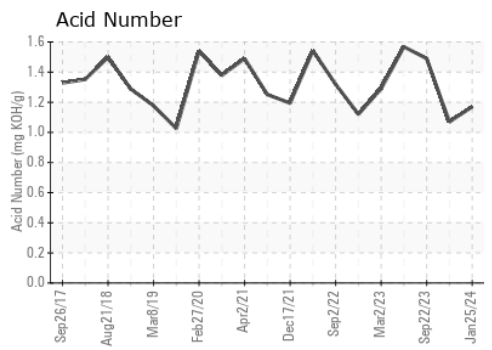
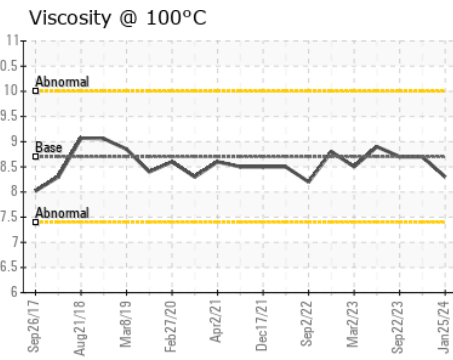
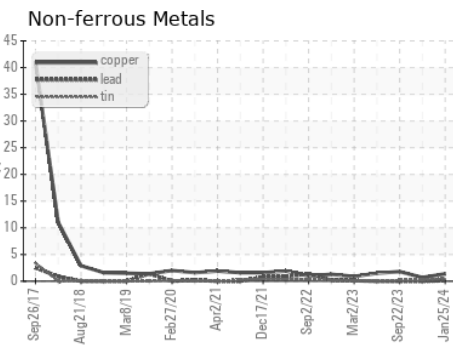
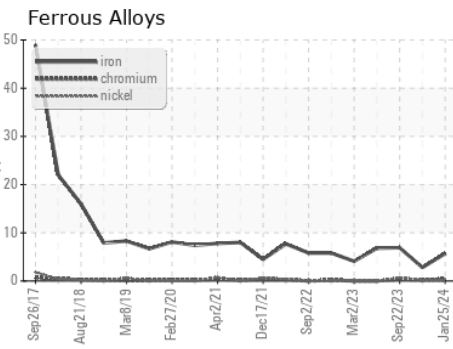
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	8.7	8.3	8.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0680179
Lab Number : **06075429**
Unique Number : 10857520
Test Package : FLEET
Received : 31 Jan 2024
Tested : 06 Feb 2024
Diagnosed : 06 Feb 2024 - Jonathan Hester

WEARCHECK USA
 501 Madison Ave
 Cary, NC
 US 27513
 Contact: CATHERINE ANASTASIO
 CANASTASIO@WEARCHECKUSA.COM
 T:
 F: (919)379-4050

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)