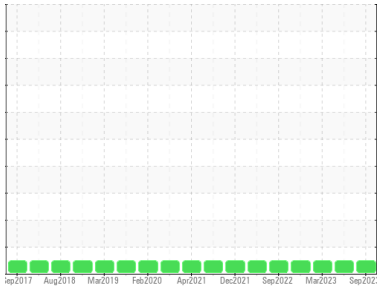
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
[MN-25784]
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: 2413)

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		**WC0680176**	WC0680175	WC0680174
Sample Date		Client Info		**22 Sep 2023**	11 May 2023	02 Mar 2023
Machine Age	mls	Client Info		**91613**	85865	79765
Oil Age	mls	Client Info		**5748**	6100	3384
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
Glycol		WC Method		**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	**7**	7	4
Chromium	ppm	ASTM D5185m	>20	**<1**	0	0
Nickel	ppm	ASTM D5185m	>5	**<1**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>40	**2**	<1	1
Lead	ppm	ASTM D5185m	>50	**0**	0	<1
Copper	ppm	ASTM D5185m	>155	**2**	2	<1
Tin	ppm	ASTM D5185m	>10	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**<1**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**21**	22	47
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**100**	96	116
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**395**	410	426
Calcium	ppm	ASTM D5185m		**1192**	1284	1276
Phosphorus	ppm	ASTM D5185m	770	**621**	628	624
Zinc	ppm	ASTM D5185m	850	**766**	778	811
Sulfur	ppm	ASTM D5185m		**2210**	2111	2110

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

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	**8.0**	8.3	8.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	**19.2**	21.0	18.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	**12.0**	12.7	10.4
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.490**	1.568	1.29

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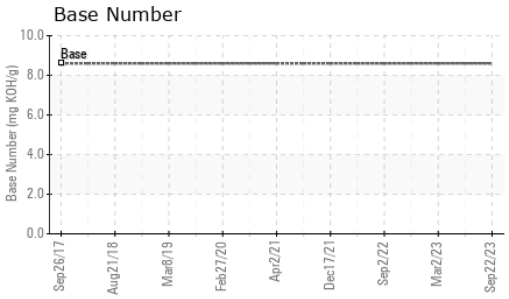
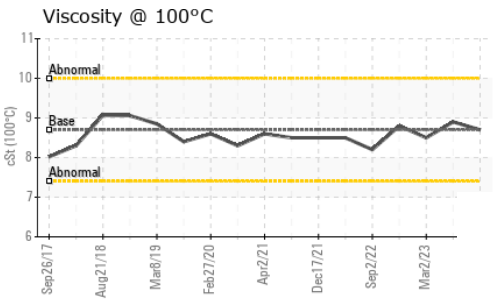
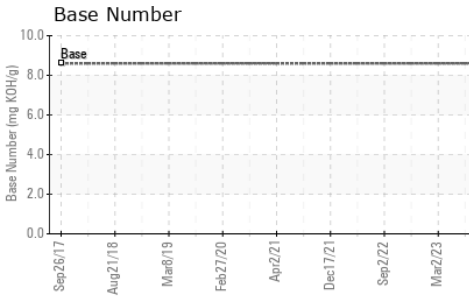


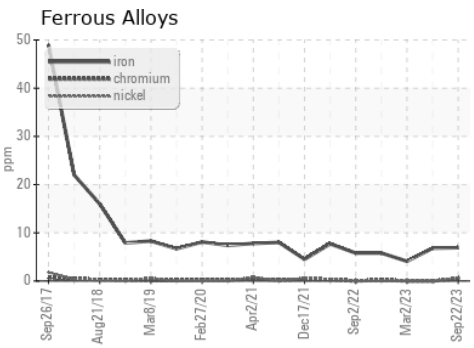


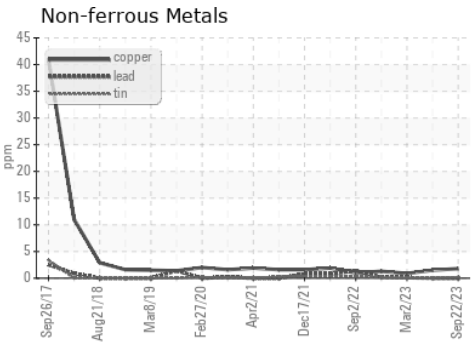


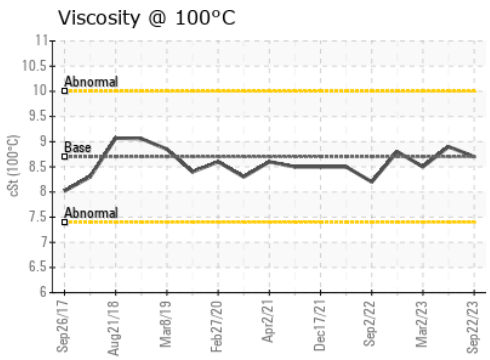
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

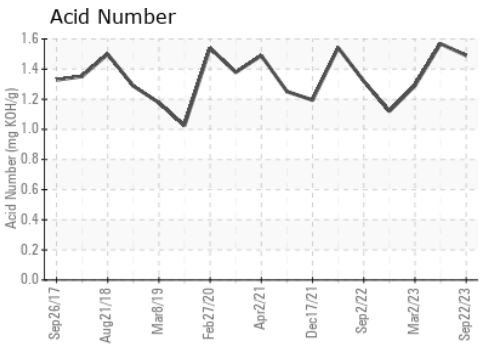
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	8.7	**8.7**	8.9	8.5

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0680176
Lab Number : 05959462
Unique Number : 10660675
Test Package : FLEET

Received : 25 Sep 2023
Diagnosed : 29 Sep 2023
Diagnostician : Jonathan Hester

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)

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