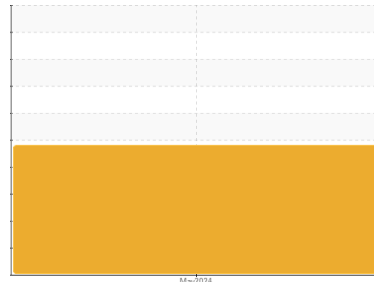




PROBLEM SUMMARY

Sample Rating Trend

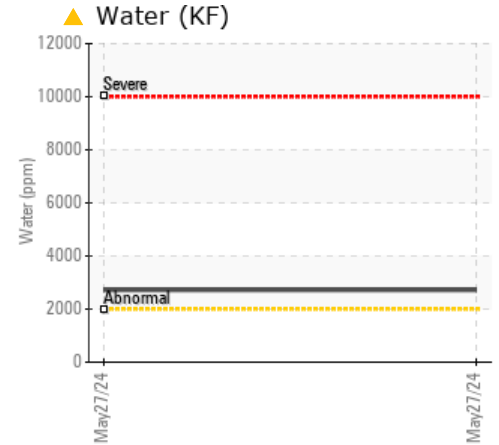
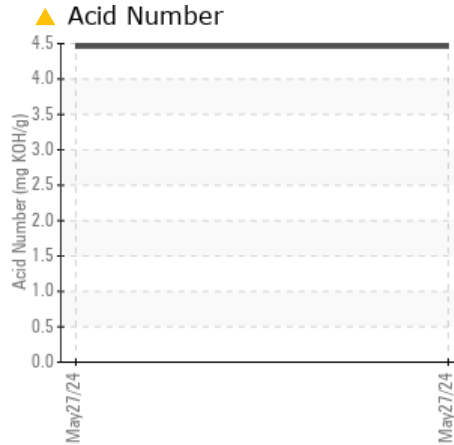
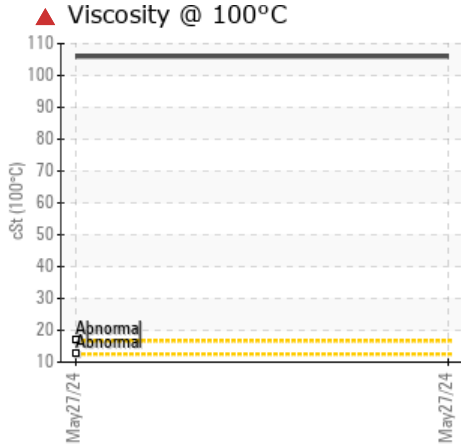


WATER



Machine Id
DODGE Ram 1500
 Component
Diesel Engine
 Fluid
 {not provided} (6 QTS)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data and diagnostic comment updates.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	---	---
Water	%	ASTM D6304	>0.2	▲ 0.272	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2720	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 4.46	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 3.5	---	---
Visc @ 100°C	cSt	ASTM D445		▲ 106.0	---	---

Customer Id: KIMNAS
 Sample No.: KFS0004943
 Lab Number: 06196256
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

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

RECOMMENDED ACTIONS

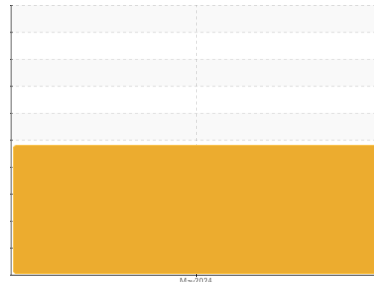
Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Change Filter	---	---	?	We recommend that you drain the oil and perform a filter service on this component if not already done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id
DODGE Ram 1500
 Component
Diesel Engine
 Fluid
{not provided} (6 QTS)

DIAGNOSIS

▲ Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Resample at the next service interval to monitor. Please note that this is a corrected copy for laboratory data and diagnostic comment updates.

Wear

All component wear rates are normal.

▲ Contamination

There is a light concentration of water present in the oil. Test for glycol is negative.

▲ Fluid Condition

The AN level is above the recommended limit. The oil viscosity is higher than normal. The BN level is low. The oil is oxi-polymerized and beyond the limit of serviceability.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			KFS0004943	---	---
Sample Date	Client Info			27 May 2024	---	---
Machine Age	mls	Client Info		0	---	---
Oil Age	mls	Client Info		6000	---	---
Oil Changed	Client Info			N/A	---	---
Sample Status				SEVERE	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<1.0	---	---
Glycol	WC Method			NEG	---	---

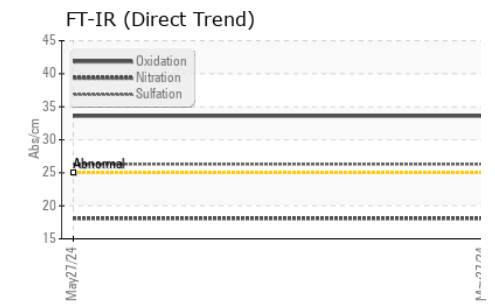
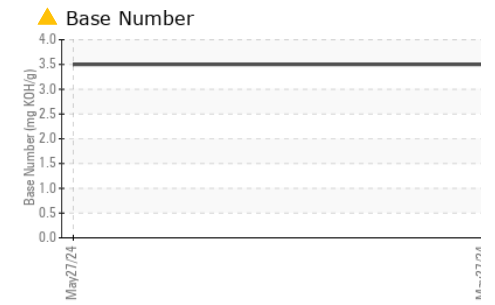
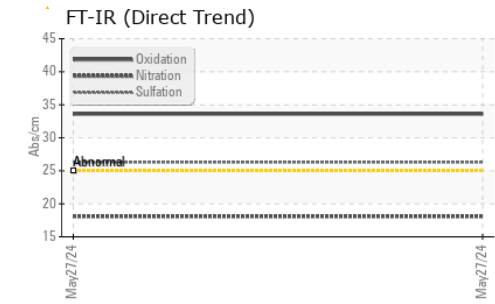
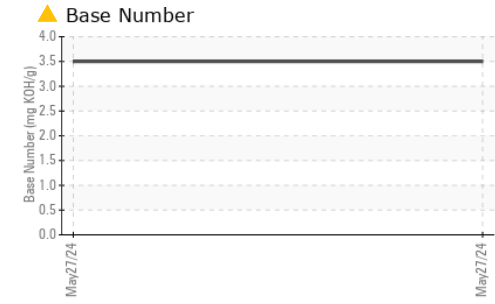
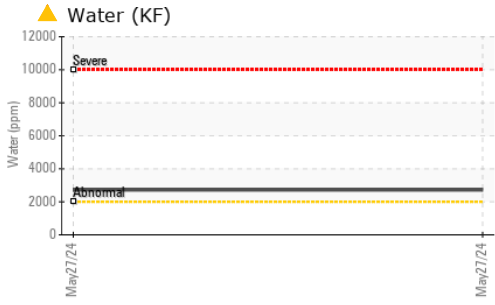
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	88	---	---
Chromium	ppm	ASTM D5185m	>20	2	---	---
Nickel	ppm	ASTM D5185m	>4	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>3	0	---	---
Aluminum	ppm	ASTM D5185m	>20	8	---	---
Lead	ppm	ASTM D5185m	>40	0	---	---
Copper	ppm	ASTM D5185m	>330	86	---	---
Tin	ppm	ASTM D5185m	>15	<1	---	---
Vanadium	ppm	ASTM D5185m		0	---	---
Cadmium	ppm	ASTM D5185m		0	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		17	---	---
Barium	ppm	ASTM D5185m		<1	---	---
Molybdenum	ppm	ASTM D5185m		118	---	---
Manganese	ppm	ASTM D5185m		12	---	---
Magnesium	ppm	ASTM D5185m		425	---	---
Calcium	ppm	ASTM D5185m		1059	---	---
Phosphorus	ppm	ASTM D5185m		607	---	---
Zinc	ppm	ASTM D5185m		706	---	---
Sulfur	ppm	ASTM D5185m		1776	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	15	---	---
Sodium	ppm	ASTM D5185m		4	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Water	%	ASTM D6304	>0.2	▲ 0.272	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2720	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	---	---
Nitration	Abs/cm	*ASTM D7624	>20	18.1	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.3	---	---

OIL ANALYSIS REPORT

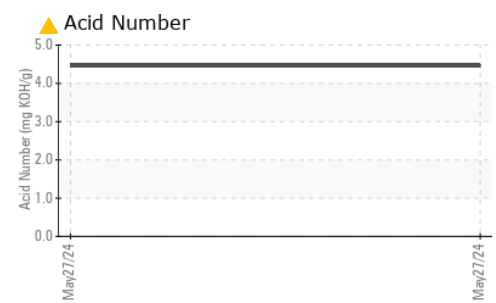
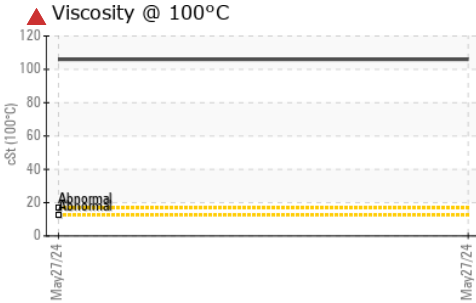
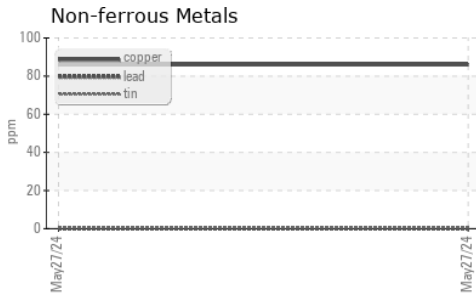
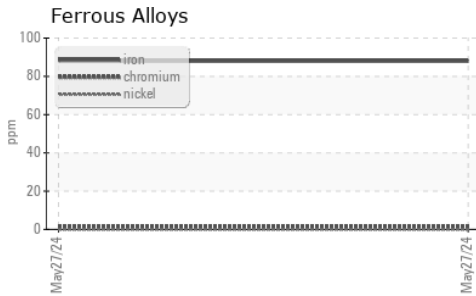


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	*ASTM D7414	>25	33.6	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		▲ 4.46	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		▲ 3.5	---	---

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		▲ 106.0	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : KFS0004943 **Received** : 31 May 2024
Lab Number : **06196256** **Tested** : 12 Jun 2024
Unique Number : 11058379 **Diagnosed** : 12 Jun 2024 - Doug Bogart
Test Package : FLEET (Additional Tests: KF, TAN MAN)

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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