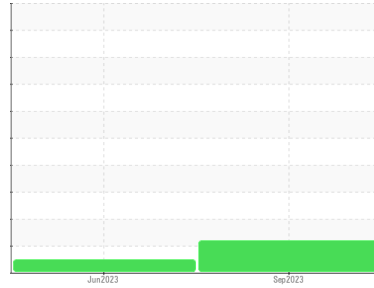




# OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id  
**DODGE RAM**  
 Component  
**Gasoline Engine**  
 Fluid  
**ALPHA PREM 10W30 (--- GAL)**

## 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

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The AN level is above the recommended limit. The BN result indicates that there is suitable alkalinity remaining in the oil.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0617386</b>	WC0617383	---
Sample Date	Client Info		<b>28 Sep 2023</b>	12 Jun 2023	---
Machine Age	mls	Client Info	<b>129747</b>	109724	---
Oil Age	mls	Client Info	<b>20023</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<b>&lt;1.0</b>	<1.0	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >150	<b>129</b>	63	---
Chromium	ppm	ASTM D5185m >20	<b>2</b>	1	---
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >40	<b>31</b>	19	---
Lead	ppm	ASTM D5185m >50	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >155	<b>4</b>	5	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>2</b>	1	---
Magnesium	ppm	ASTM D5185m	<b>18</b>	17	---
Calcium	ppm	ASTM D5185m	<b>2950</b>	3786	---
Phosphorus	ppm	ASTM D5185m	<b>702</b>	833	---
Zinc	ppm	ASTM D5185m	<b>879</b>	1035	---
Sulfur	ppm	ASTM D5185m	<b>3240</b>	4026	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >30	<b>7</b>	6	---
Sodium	ppm	ASTM D5185m >400	<b>2</b>	3	---
Potassium	ppm	ASTM D5185m >20	<b>30</b>	21	---
Glycol	%	*ASTM D2982	<b>NEG</b>	NEG	---

## INFRA-RED

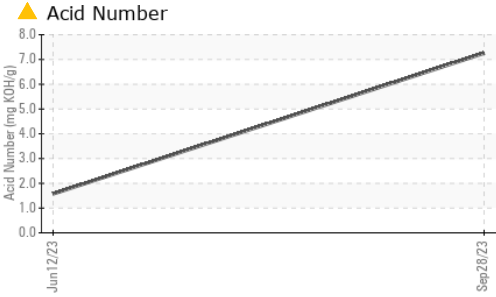
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	<b>1.4</b>	1.2	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>18.3</b>	17.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>40.8</b>	42.9	---

## FLUID DEGRADATION

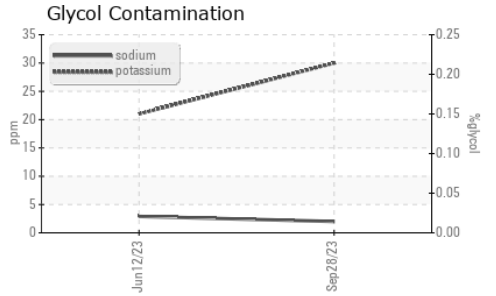
	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>45.9</b>	43.2	---
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>▲ 7.252</b>	1.57	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.30</b>	8.01	---



# OIL ANALYSIS REPORT

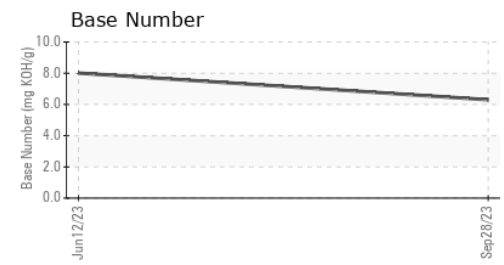
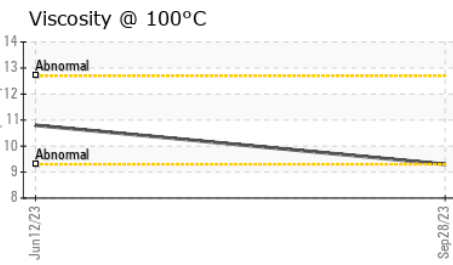
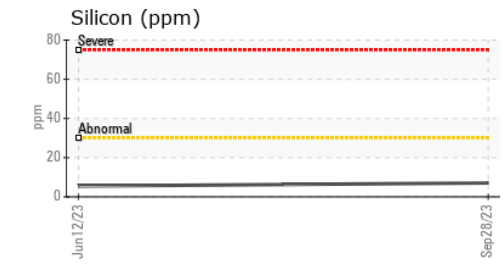
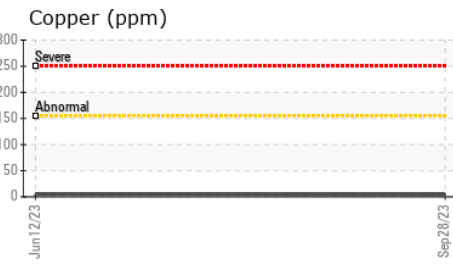
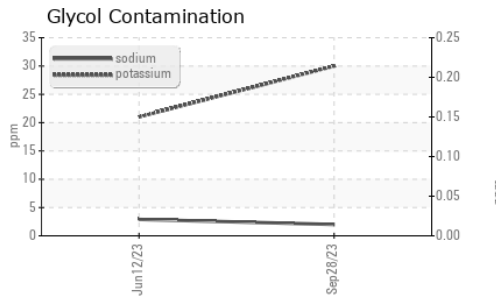
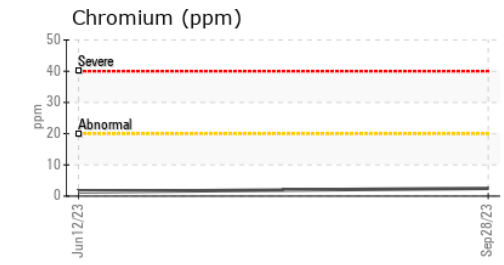
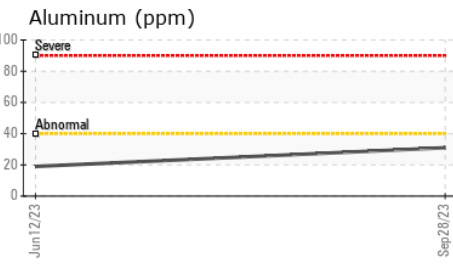
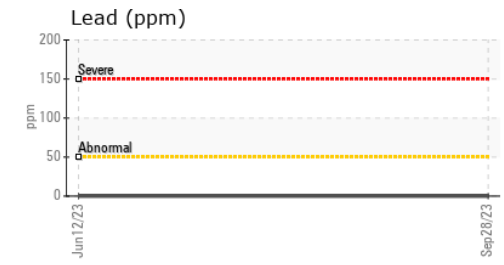
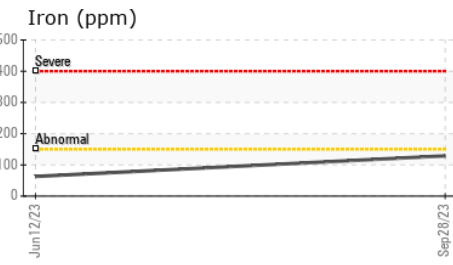
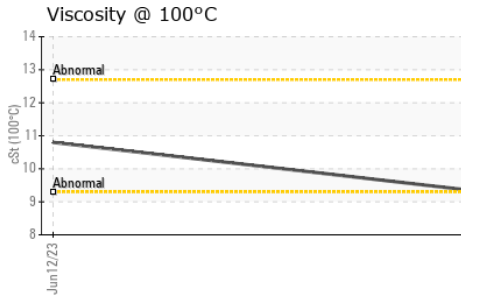


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	9.3	10.8	---

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0617386 **Received** : 02 Oct 2023  
**Lab Number** : 05967174 **Diagnosed** : 03 Oct 2023  
**Unique Number** : 10673725 **Diagnostician** : Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: Glycol, TBN )

**EK EQUIPMENT LLC**  
 392 ELWOOD RD  
 FORT PLAIN, NY  
 US 13339  
 Contact: ELAM

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)

T:  
F: