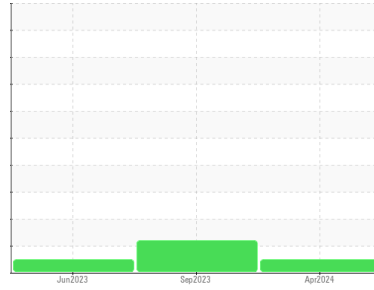




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



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

### DIAGNOSIS

#### Recommendation

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 BN result indicates that there is suitable alkalinity remaining in the oil. 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			<b>WC0865848</b>	WC0617386	WC0617383
Sample Date	Client Info			<b>15 Apr 2024</b>	28 Sep 2023	12 Jun 2023
Machine Age	mls	Client Info		<b>152518</b>	129747	109724
Oil Age	mls	Client Info		<b>16267</b>	20023	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>4.0		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	<b>57</b>	129	63
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	1
Nickel	ppm	ASTM D5185m	>5	<b>1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>12</b>	31	19
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>155	<b>3</b>	4	5
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>156</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	2	1
Magnesium	ppm	ASTM D5185m		<b>12</b>	18	17
Calcium	ppm	ASTM D5185m		<b>3255</b>	2950	3786
Phosphorus	ppm	ASTM D5185m		<b>864</b>	702	833
Zinc	ppm	ASTM D5185m		<b>892</b>	879	1035
Sulfur	ppm	ASTM D5185m		<b>3675</b>	3240	4026

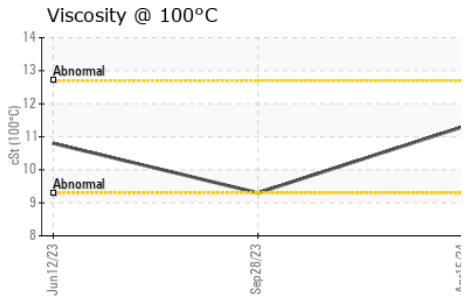
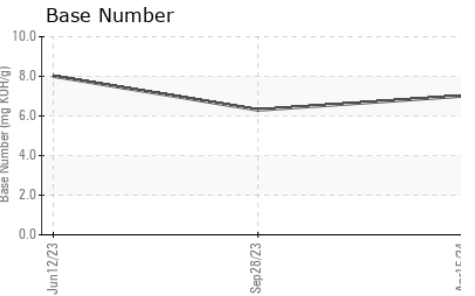
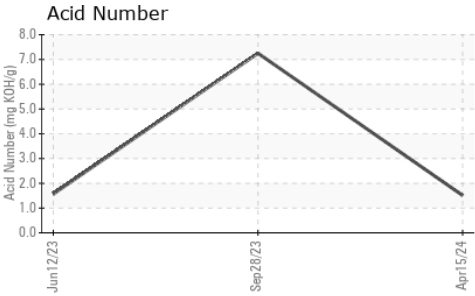
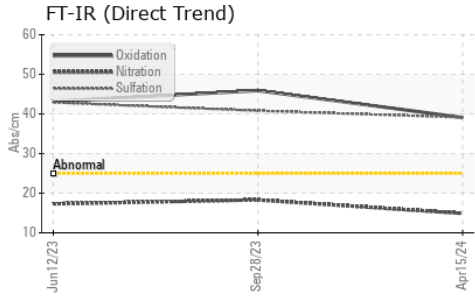
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>8</b>	7	6
Sodium	ppm	ASTM D5185m	>400	<b>3</b>	2	3
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	30	21

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0.9</b>	1.4	1.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>14.9</b>	18.3	17.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>39.1</b>	40.8	42.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>39.1</b>	45.9	43.2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>1.51</b>	7.252	1.57
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.01</b>	6.30	8.01



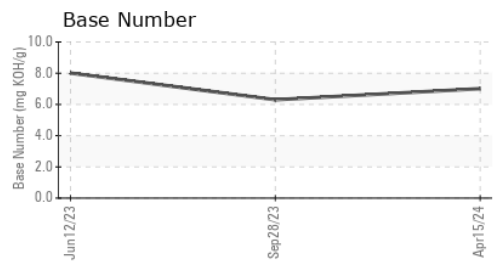
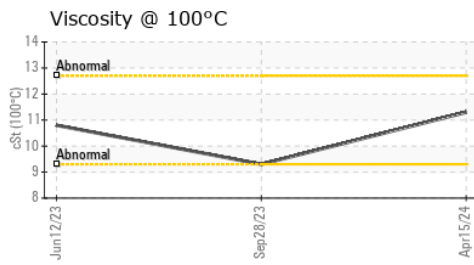
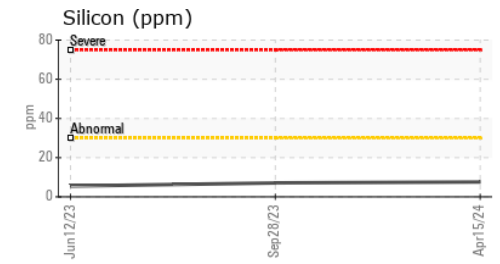
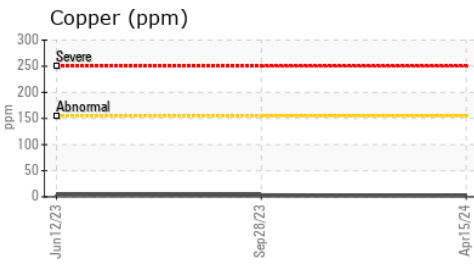
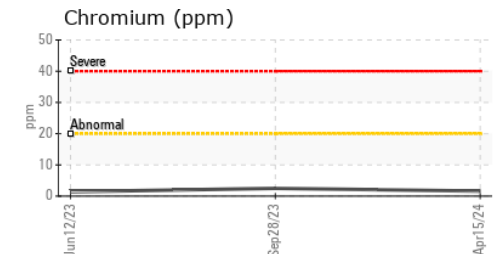
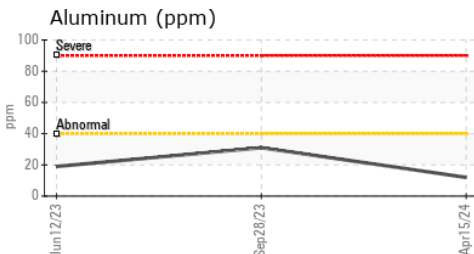
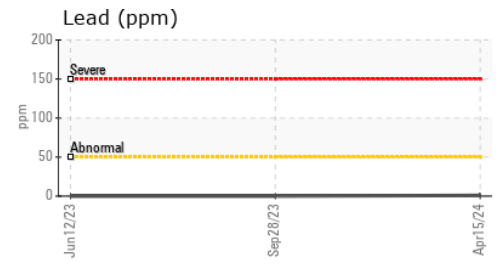
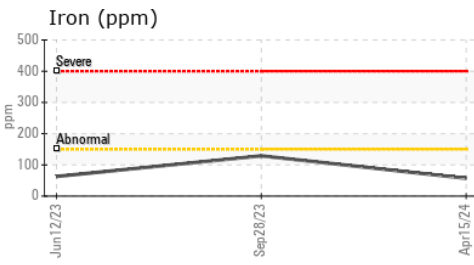
# OIL ANALYSIS REPORT



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	11.3	9.3	10.8

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0865848      **Received** : 18 Apr 2024  
**Lab Number** : 06153819      **Tested** : 23 Apr 2024  
**Unique Number** : 10989242      **Diagnosed** : 23 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: TBN )

**EK EQUIPMENT LLC**  
 392 ELWOOD RD  
 FORT PLAIN, NY  
 US 13339  
 Contact: ELAM  
 EKEQUIPMENT@STARLIGHTPRINT.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)