



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ATTENTION

Machine Id  
**KING 15W40 BIG PLUS CK4**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

This is a baseline read-out on the submitted sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0913431	---	---
Sample Date		Client Info		15 Apr 2024	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				ATTENTION	---	---

## WEAR

Iron	ppm	ASTM D5185m		<1	---	---
Chromium	ppm	ASTM D5185m		0	---	---
Nickel	ppm	ASTM D5185m		0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m		2	---	---
Lead	ppm	ASTM D5185m		<1	---	---
Copper	ppm	ASTM D5185m		0	---	---
Tin	ppm	ASTM D5185m		<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

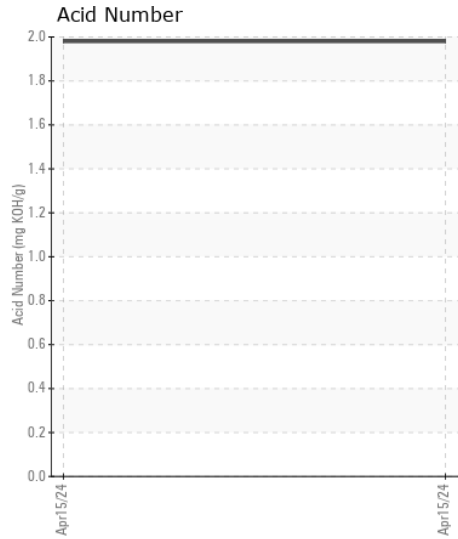
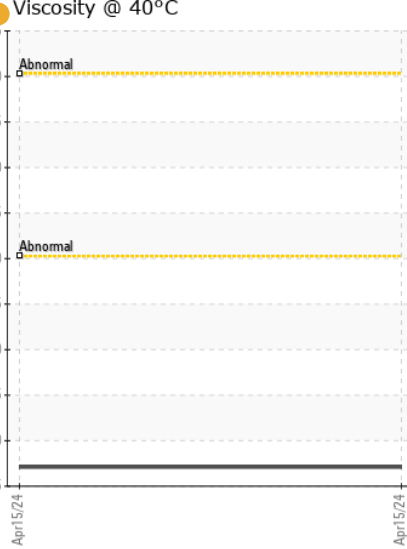
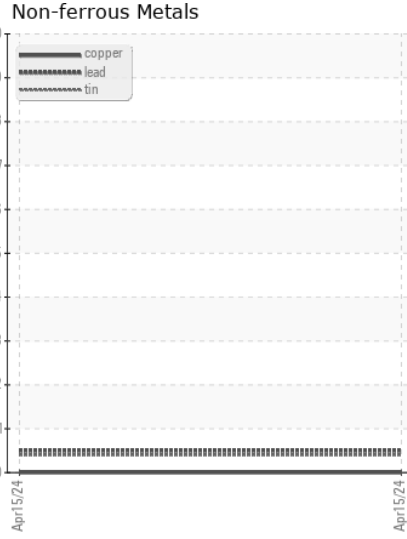
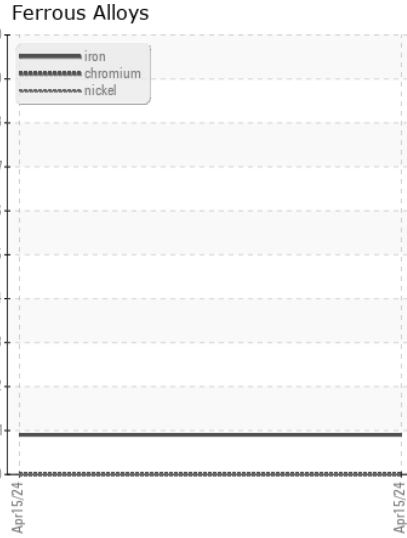
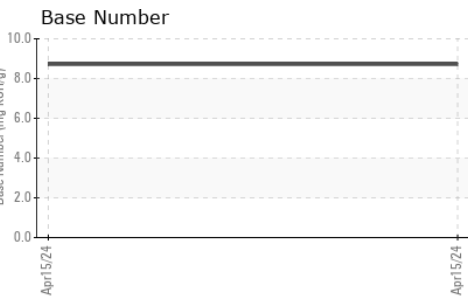
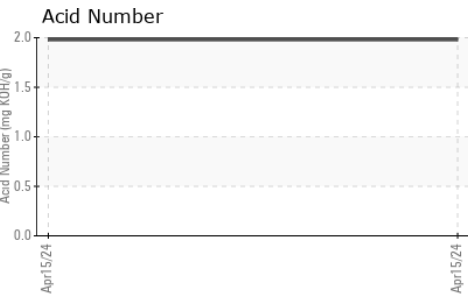
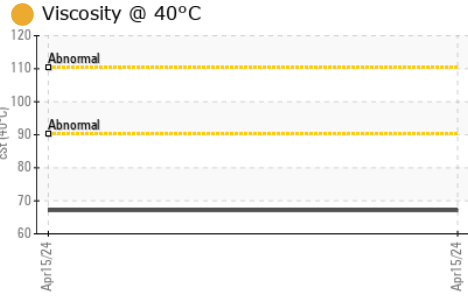
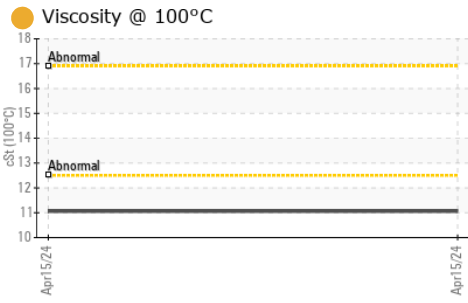
## CONTAMINATION

Silicon	ppm	ASTM D5185m		8	---	---
Potassium	ppm	ASTM D5185m	>20	<1	---	---
Fuel	%	ASTM D3524		0.1	---	---
Water	%	ASTM D6304		NEG	---	---
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		NEG	---	---

## FLUID CONDITION

The oil viscosity is lower than typical, possibly indicating lighter grade oil.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		426	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		124	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		534	---	---
Calcium	ppm	ASTM D5185m		1442	---	---
Phosphorus	ppm	ASTM D5185m		880	---	---
Zinc	ppm	ASTM D5185m		1030	---	---
Sulfur	ppm	ASTM D5185m		3516	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.98	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		8.72	---	---
Visc @ 40°C	cSt	ASTM D445		67.1	---	---
Visc @ 100°C	cSt	ASTM D445		11.06	---	---
Viscosity Index (VI)	Scale	ASTM D2270		157	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0913431  
**Lab Number** : 06153861  
**Unique Number** : 10989284  
**Test Package** : MOB 2 ( Additional Tests: FT-IR, FuelDilution, ICP-NewOil, KF, KV100, PercentFuel, PrtCount, TBN, VI

**Received** : 18 Apr 2024  
**Tested** : 23 Apr 2024  
**Diagnosed** : 23 Apr 2024 - Jonathan Hester

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

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)

Contact: ELAM  
 EKEQUIPMENT@STARLIGHTPRINT.COM

T:  
 F: