



# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id

## BLUE FLAME HB-5

Component

New (Unused) Oil

Fluid

D-A Lubricant Blue Flame HB-5 40W (--- GAL)

### DIAGNOSIS

#### Recommendation

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0870550</b>	---	---
Sample Date	Client Info			<b>18 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>0</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method			<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Chromium	ppm	ASTM D5185m		<b>0</b>	---	---
Nickel	ppm	ASTM D5185m		<b>0</b>	---	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185m		<b>0</b>	---	---
Copper	ppm	ASTM D5185m		<b>0</b>	---	---
Tin	ppm	ASTM D5185m		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---	---

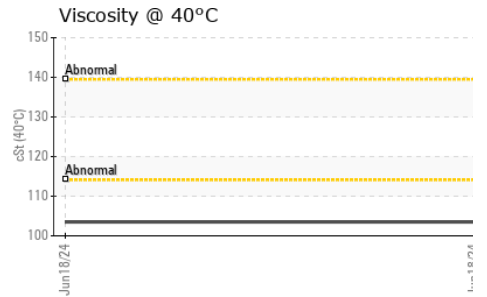
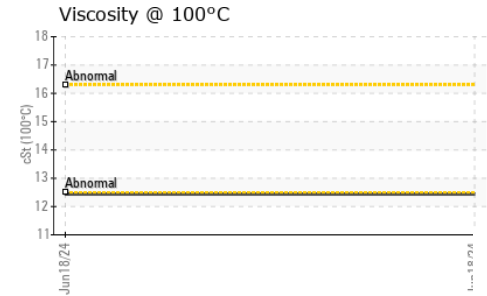
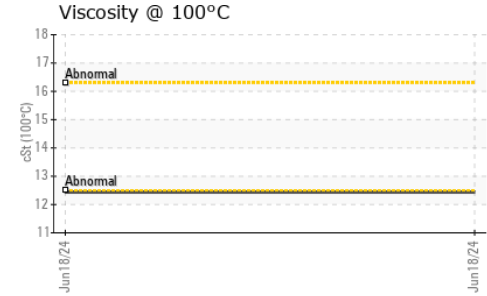
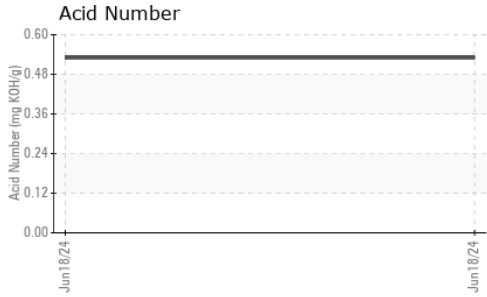
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>25</b>	---	---
Barium	ppm	ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m		<b>4</b>	---	---
Manganese	ppm	ASTM D5185m		<b>0</b>	---	---
Magnesium	ppm	ASTM D5185m		<b>35</b>	---	---
Calcium	ppm	ASTM D5185m		<b>1782</b>	---	---
Phosphorus	ppm	ASTM D5185m		<b>495</b>	---	---
Zinc	ppm	ASTM D5185m		<b>629</b>	---	---
Sulfur	ppm	ASTM D5185m		<b>3299</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		<b>5</b>	---	---
Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.53</b>	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>6.02</b>	---	---



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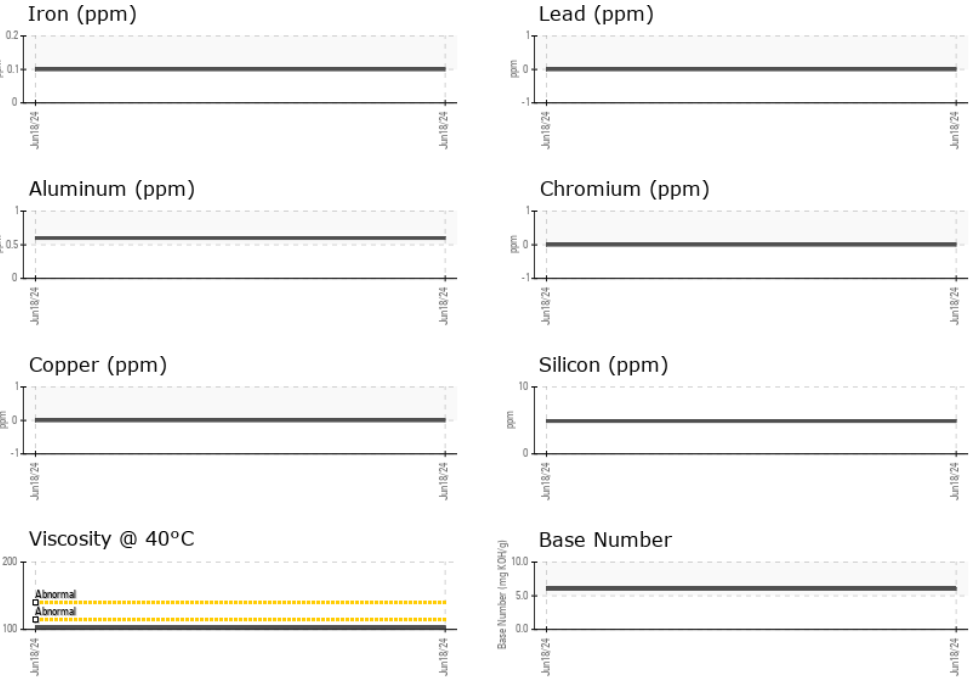
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	103.5	---	---
Visc @ 100°C	cSt	ASTM D445	12.44	---	---
Viscosity Index (VI)	Scale	ASTM D2270	112	---	---

### SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0870550      **Received** : 18 Jun 2024  
**Lab Number** : 06213953      **Tested** : 20 Jun 2024  
**Unique Number** : 11086817      **Diagnosed** : 20 Jun 2024 - Sean Felton  
**Test Package** : MOB 2 ( Additional Tests: KV100, TBN, VI )

**OAK GROVE KS**  
 1150 E 700TH AVE  
 ARCADIA, KS  
 US 66711

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: KALEB WEAVER  
kaleb.weaver@cubedistrictenergy.com

\* - 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: