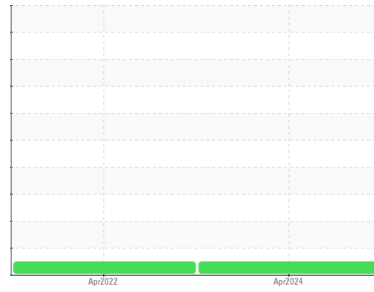


# OIL ANALYSIS REPORT

Area  
**K5 CONSTRUCTION CORPORATION - HODGKINS IL**  
 Machine Id  
**4634**  
 Component  
**Diesel Engine**  
 Fluid  
**LEAHY WOLF PREMIUM 15W40 (4 GAL)**

### Sample Rating Trend



## 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 condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PCA0122005</b>	LW0004468	---
Sample Date	Client Info		<b>19 Apr 2024</b>	08 Apr 2022	---
Machine Age	hrs	Client Info	<b>6424</b>	3131	---
Oil Age	hrs	Client Info	<b>3293</b>	275	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>NORMAL</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.2	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>31</b>	46	---
Chromium	ppm	ASTM D5185m >20	<b>1</b>	3	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >20	<b>2</b>	3	---
Lead	ppm	ASTM D5185m >40	<b>15</b>	9	---
Copper	ppm	ASTM D5185m >330	<b>3</b>	5	---
Tin	ppm	ASTM D5185m >15	<b>0</b>	2	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>2</b>	4	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>62</b>	58	---
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>1059</b>	1002	---
Calcium	ppm	ASTM D5185m	<b>1254</b>	1209	---
Phosphorus	ppm	ASTM D5185m	<b>1094</b>	1038	---
Zinc	ppm	ASTM D5185m	<b>1373</b>	1211	---
Sulfur	ppm	ASTM D5185m	<b>3725</b>	2788	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>4</b>	6	---
Sodium	ppm	ASTM D5185m	<b>5</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	---

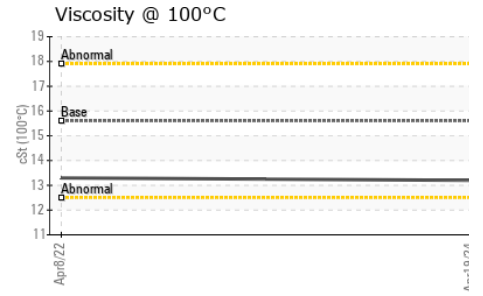
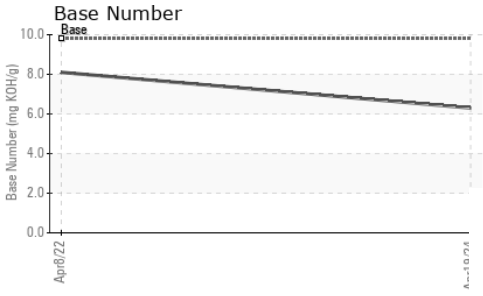
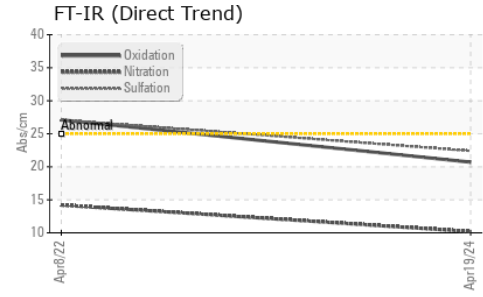
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	1.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>10.2</b>	14.2	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>22.4</b>	27.1	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>20.7</b>	27.1	---
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>6.3</b>	8.1	---

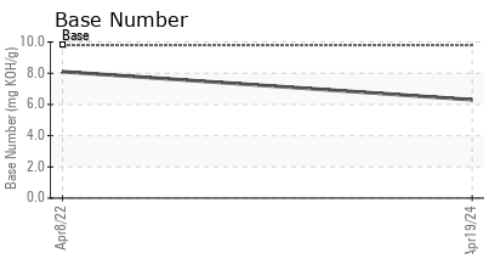
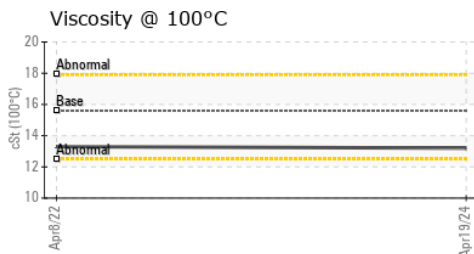
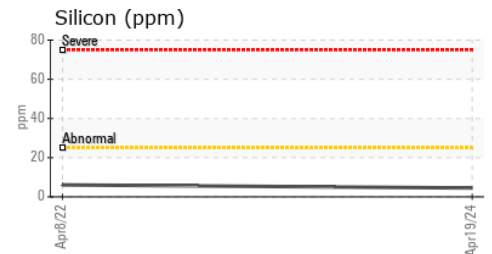
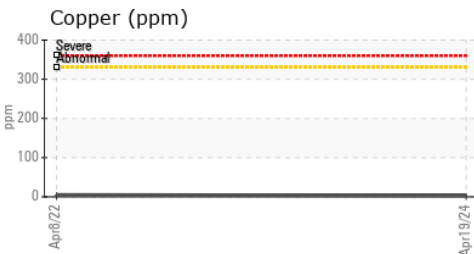
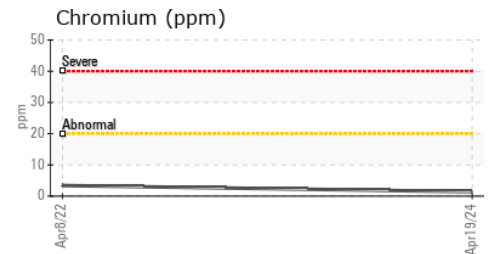
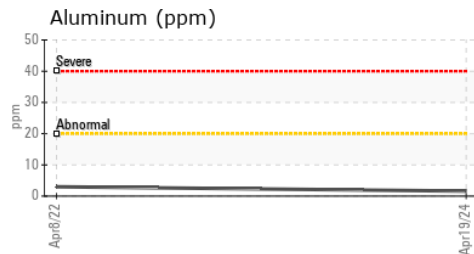
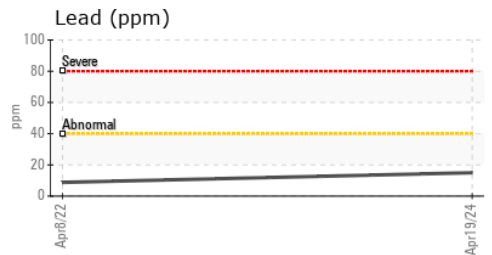
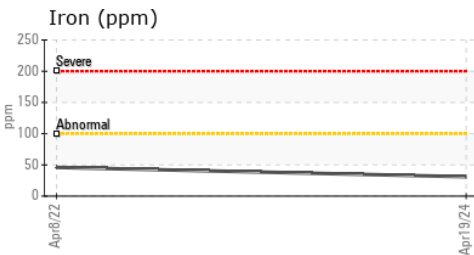
# OIL ANALYSIS REPORT



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	15.6	<b>13.2</b>	13.3	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0122005      **Received** : 25 Apr 2024  
**Lab Number** : 06160069      **Tested** : 25 Apr 2024  
**Unique Number** : 10995492      **Diagnosed** : 25 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**K5 CONSTRUCTION CORPORATION**  
 6301 S EAST AVENUE  
 HODGKINS, IL  
 US 60525

Contact: Dave Gorski  
 daveg@k-five.net  
 T: (630)257-5600

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)

F: