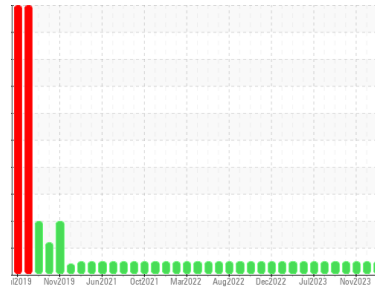


# OIL ANALYSIS REPORT



Area  
**K5 CONSTRUCTION CORPORATION - HODGKINS IL**  
Machine Id  
**1123**  
Component  
**Diesel Engine**  
Fluid  
**LEAHY WOLF PREMIUM 15W40 (10 hrs)**

Sample Rating Trend



**NORMAL**



## 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>PCA0122082</b>	LW0008349	LW0008431
Sample Date	Client Info		<b>28 Mar 2024</b>	11 Dec 2023	17 Nov 2023
Machine Age	hrs	Client Info	<b>11420</b>	11047	11047
Oil Age	hrs	Client Info	<b>373</b>	10795	252
Oil Changed	Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<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 >75	<b>6</b>	32	14
Chromium	ppm	ASTM D5185m >4	<b>0</b>	1	<1
Nickel	ppm	ASTM D5185m >5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m >2	<b>1</b>	<1	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >54	<b>1</b>	2	<1
Lead	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m >240	<b>2</b>	6	3
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>4</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	12	0
Molybdenum	ppm	ASTM D5185m	<b>56</b>	64	63
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>950</b>	999	977
Calcium	ppm	ASTM D5185m	<b>1045</b>	1110	1181
Phosphorus	ppm	ASTM D5185m	<b>1077</b>	1030	1116
Zinc	ppm	ASTM D5185m	<b>1250</b>	1284	1301
Sulfur	ppm	ASTM D5185m	<b>3569</b>	3056	2737

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	<b>3</b>	4	4
Sodium	ppm	ASTM D5185m	<b>2</b>	2	4
Potassium	ppm	ASTM D5185m >20	<b>1</b>	7	3

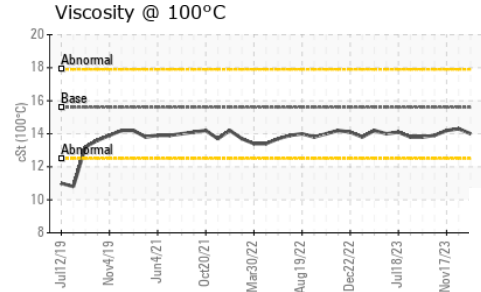
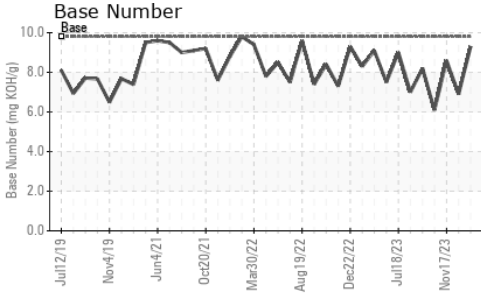
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.2</b>	0.6	0.5
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.4</b>	10.6	9.1
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.2</b>	23.2	20.7

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>15.6</b>	21.1	17.7
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	<b>9.3</b>	6.9	8.6

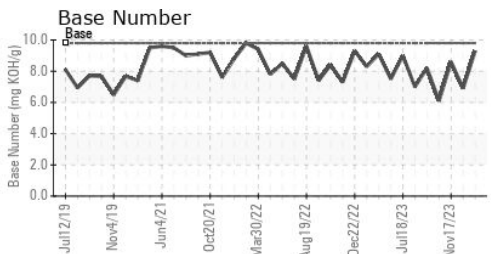
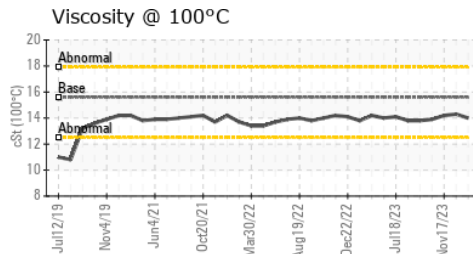
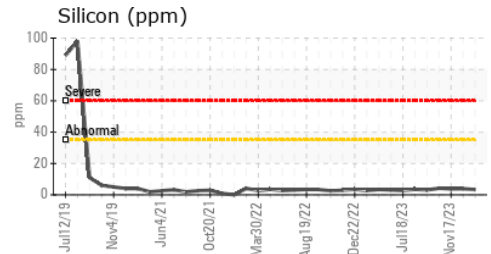
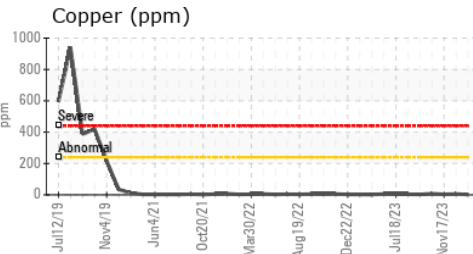
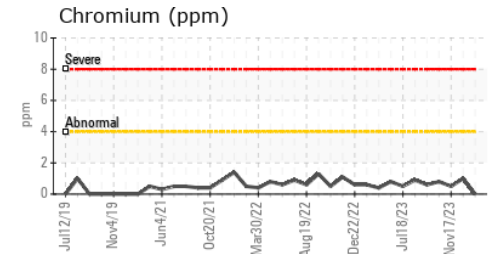
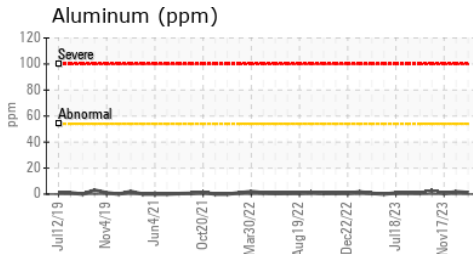
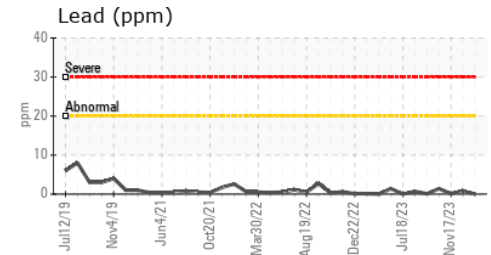
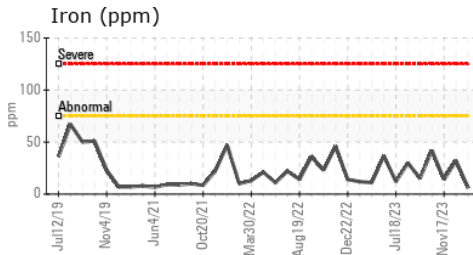
# OIL ANALYSIS REPORT



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	15.6	<b>14.0</b>	14.3	14.2

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : PCA0122082  
**Lab Number** : 06137105  
**Unique Number** : 10956570  
**Test Package** : MOB 1 ( Additional Tests: TBN )

**K5 CONSTRUCTION CORPORATION**  
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 HODGKINS, IL  
 US 60525  
 Contact: Dave Gorski  
 daveg@k-five.net  
 T: (630)257-5600  
 F:

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)