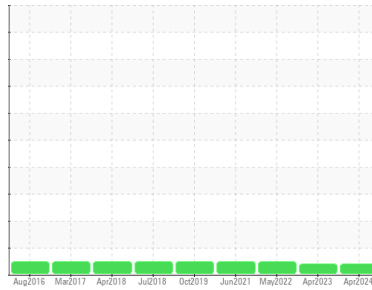


# OIL ANALYSIS REPORT



Area  
**K5 CONSTRUCTION CORPORATION - HODGKINS IL**  
 Machine Id  
**1165**  
 Component  
**Diesel Engine**  
 Fluid  
**LEAHY WOLF PREMIUM 15W40 (8 hrs)**

### Sample Rating Trend



### VISCOSITY



### DIAGNOSIS

#### Recommendation

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>PCA0122068</b>	LW0006480	LW0004735
Sample Date	Client Info			<b>19 Apr 2024</b>	18 Apr 2023	09 May 2022
Machine Age	hrs	Client Info		<b>9866</b>	9612	9352
Oil Age	hrs	Client Info		<b>254</b>	260	290
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>ATTENTION</b>	ATTENTION	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	0.5	<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	>100	<b>11</b>	6	7
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>25	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185m	>40	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>330	<b>6</b>	<1	1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

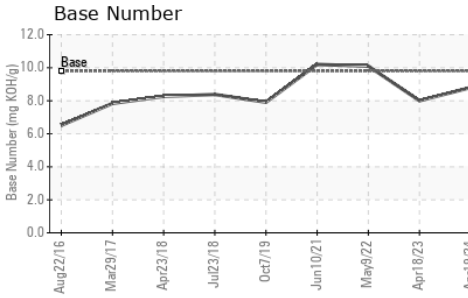
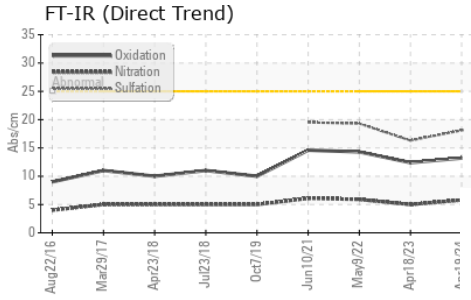
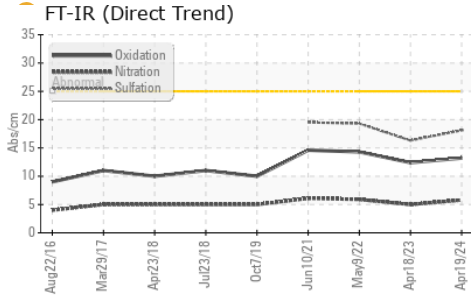
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>10</b>	6	5
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>62</b>	58	57
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>967</b>	899	965
Calcium	ppm	ASTM D5185m		<b>1190</b>	1141	1152
Phosphorus	ppm	ASTM D5185m		<b>1076</b>	1014	1093
Zinc	ppm	ASTM D5185m		<b>1275</b>	1267	1298
Sulfur	ppm	ASTM D5185m		<b>3485</b>	3335	2586

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	<b>5</b>	4	2
Sodium	ppm	ASTM D5185m		<b>7</b>	1	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	<1

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.4</b>	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.8</b>	5.0	5.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.1</b>	16.3	19.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>13.2</b>	12.4	14.3
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	<b>8.8</b>	8.0	10.1

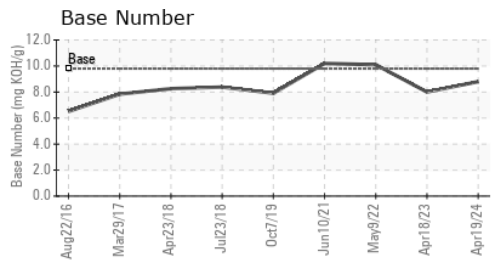
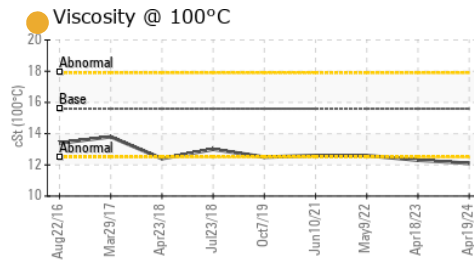
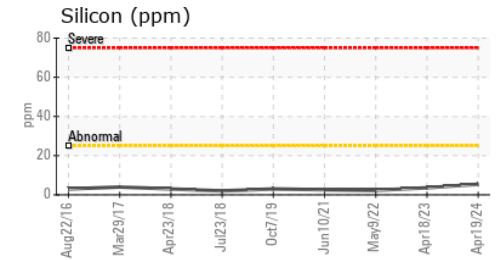
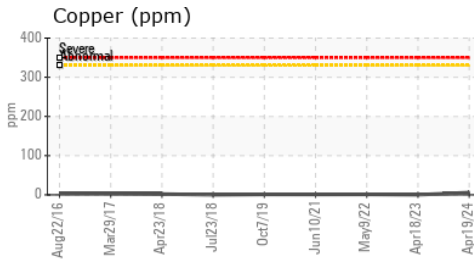
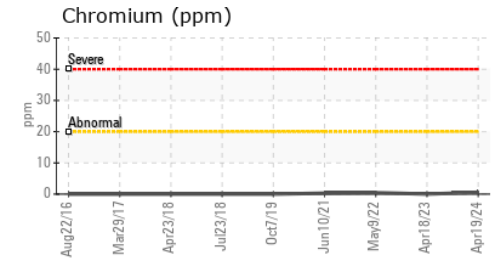
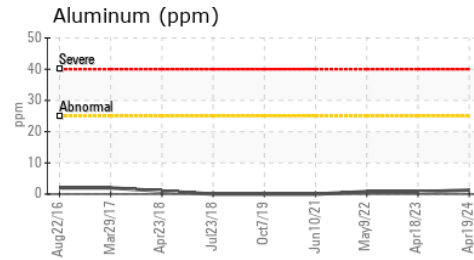
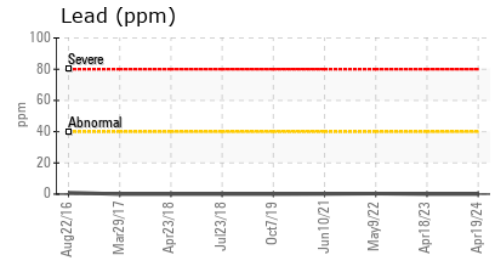
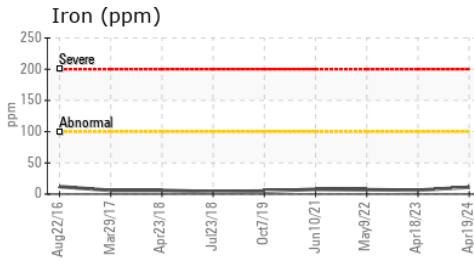
# OIL ANALYSIS REPORT



PARAMETER	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	12.1	12.3

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : PCA0122068

**Lab Number** : 06158928

**Unique Number** : 10994351

**Test Package** : MOB 1 ( Additional Tests: TBN )

**Received** : 24 Apr 2024

**Tested** : 25 Apr 2024

**Diagnosed** : 26 Apr 2024 - Jonathan Hester

**K5 CONSTRUCTION CORPORATION**

6301 S EAST AVENUE

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)