16.1

8.1

13.0

13.7

13.8

9.1

14.9

8.4

13.0

Abs/.1mm \*ASTM D7414 >25

ASTM D445 15.6

Base Number (BN) mg KOH/g ASTM D2896 9.8

Machine Id 1112 Component Diesel Engine Fluid LEAHY WOLF PREMIUM 15W4	0 (10 GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LW0009266	,	LW0007721
Resample at the next service interval to monitor.	Sample Date		Client Info		21 May 2024		06 Sep 2023
	Machine Age	hrs	Client Info		136842	136842	136842
	Oil Age	hrs	Client Info		0	136842	136842
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Changd
	Filter Changed		Client Info		Changed	Changed	Not Changd
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	20	15	6
All component wear rates are normal	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>2	0	<1	<1
	Titanium	ppm	ASTM D5185m	>2	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m	>25	2	2	1
	Lead	ppm	ASTM D5185m		1	<1	<1
	Copper	ppm	ASTM D5185m		14	17	10
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	5
	Potassium	ppm	ASTM D5185m	>20	2	7	5
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.3	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	7.8	7.5	5.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.9	17.8
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	21	16
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		0	3	4
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	12	0
	Molybdenum	ppm	ASTM D5185m		61	62	61
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		1071	897	1051
	Calcium	ppm	ASTM D5185m		1250	1073	1199
	Phosphorus	ppm	ASTM D5185m		1148	976	1130
	Zinc	ppm	ASTM D5185m		1433	1188	1431
	Sulfur	ppm	ASTM D5185m		4113	3130	4309

Oxidation

Visc @ 100°C cSt

## **K5 CONSTRUCTION CORPORATION - HODGKINS IL**

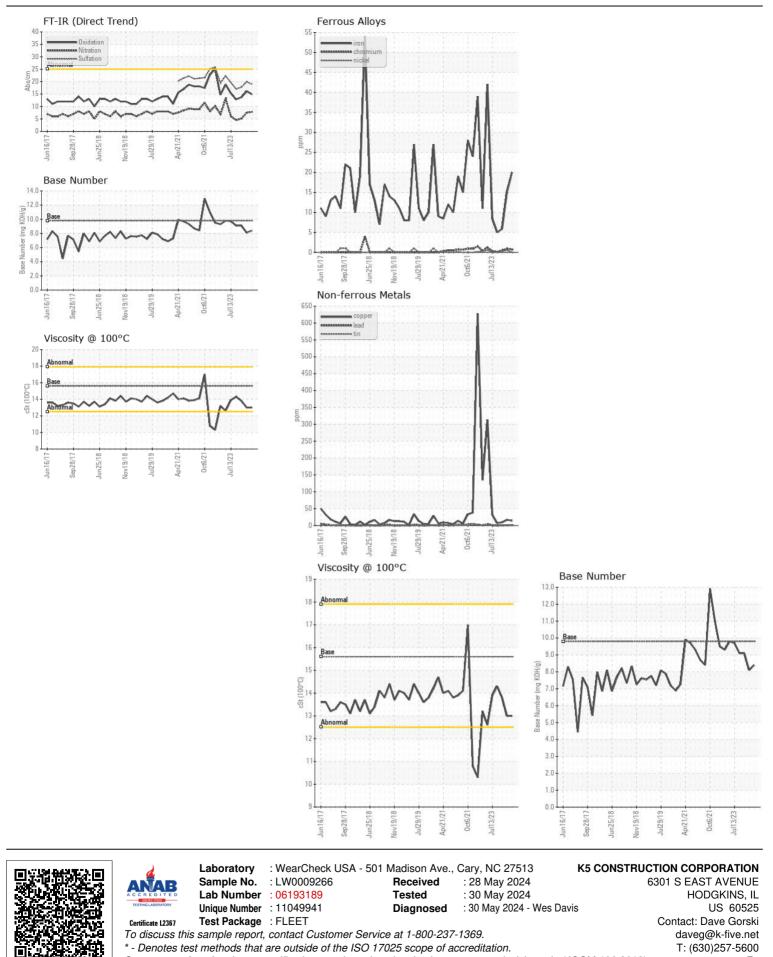
**OIL ANALYSIS REPORT** 

**EAHY·WOLF** 

Lubricating specialists since 1946

WEAR CONTAMINATION **FLUID CONDITION** NORMAL

NORMAL NORMAL



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: NOELLE TERRAULT Page 2 of 2

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