

WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

## K5 CONSTRUCTION CORPORATION - HODGKINS IL

4126

Component **Diesel Engine** 

## LEAHY WOLF PREMIUM 15W40 (38 hrs)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		PCA0122072	LW0008062	LW0007120
	Sample Date		Client Info		19 Apr 2024	17 Oct 2023	14 Jun 2023
	Machine Age	hrs	Client Info		6935	6391	5826
	Oil Age	hrs	Client Info		544	565	440
	Filter Age	hrs	Client Info		544	565	440
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	6	6	5
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	5	3
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		1	<1	0
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3	3	4
CONTAININATION	Potassium	ppm	ASTM D5185m		7	12	4
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	7.4	7.3	6.6
	Sulfation	Abs/.1mm	*ASTM D7415		19.0	19.4	19.2
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	1	3
	Boron	ppm	ASTM D5185m		2	<1	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		63	62	61
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		999	948	997
	Calcium	ppm	ASTM D5185m		1176	1131	1250
	Phosphorus	ppm	ASTM D5185m		1101	1023	1104
	Zinc	ppm	ASTM D5185m		1317	1304	1378
	Sulfur	ppm	ASTM D5185m		3432	3404	3933
	Oxidation	Abs/.1mm	*ASTM D510311	>25	15.0	15.4	15.7
	Base Number (BN)				8.2	8.6	8.1
		ing itoniy		15.0	0.2	0.0	10.7

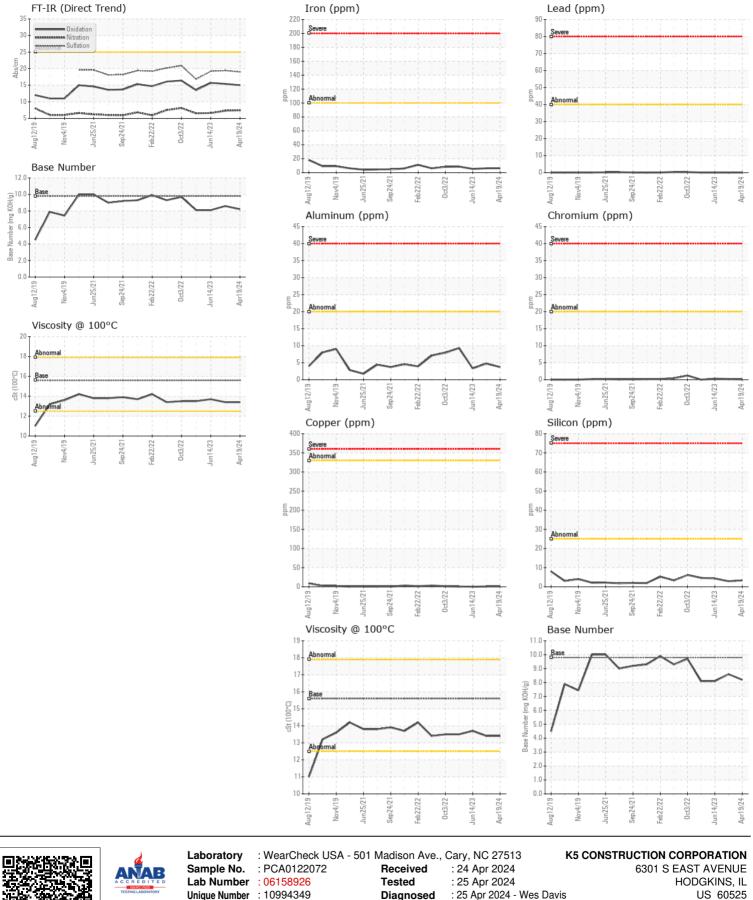
Visc @ 100°C cSt

13.4

13.7

13.4

ASTM D445 15.6



 Unique Number
 : 10994349
 Diagnosed
 : 25 Apr 20

 Certificate 12367
 Test Package
 : MOB 1 (Additional Tests: TBN)

 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)

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