

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

K5 CONSTRUCTION CORPORATION - HODGKINS IL

4120 Component

Diesel Engine

LEAHY WOLF PREMIUM 15W40 (9 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LW0009286	LW0007720	LW0007169
	Sample Date		Client Info		27 Jun 2024	06 Sep 2023	23 May 2023
	Machine Age	hrs	Client Info		3045	2493	2001
	Oil Age	hrs	Client Info		552	492	454
	Filter Age	hrs	Client Info		552	492	454
	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	14	10	12
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	1
	Silver	ppm	ASTM D5185m	>3	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>20	9	9	8
	Lead	ppm	ASTM D5185m	>40	<1	0	2
	Copper	ppm	ASTM D5185m	>330	2	2	2
	Tin	ppm	ASTM D5185m	>15	<1	<1	1
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Silicon		ASTM D5185m	. 05	c	5	0
CONTAMINATION		ppm			6 19	5	8
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m WC Method			20 <1.0	<1.0
	Water		WC Method		<1.0 NEG	NEG	<1.0 NEG
	Glycol		WC Method	>0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	. 0	0.3	0.3	0.2
	Nitration	Abs/cm	*ASTM D7644	>20	8.8	7.9	7.9
	Sulfation	Abs/.1mm	*ASTM D7024		20.1	20.1	19.7
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	2
	Boron	ppm	ASTM D5185m		2	<1	3
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		<1	0	0
	Molybdenum	ppm	ASTM D5185m		64	62	57
	Manganese	ppm	ASTM D5185m		<1	1	1
	Magnesium	ppm	ASTM D5185m		947	1061	999
	Calcium	ppm	ASTM D5185m		1126	1141	1308
	Phosphorus	ppm	ASTM D5185m		970	1111	1060
	Zinc	ppm	ASTM D5185m		1241	1445	1379
	Sulfur	ppm	ASTM D5185m		2640	3970	3892
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.6	16.1	15.6
	Dese Neurise (DN)	1/011/	AOTH DOOD	0.0		0.1	0.0

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

ASTM D445 15.6

Visc @ 100°C cSt

13.3

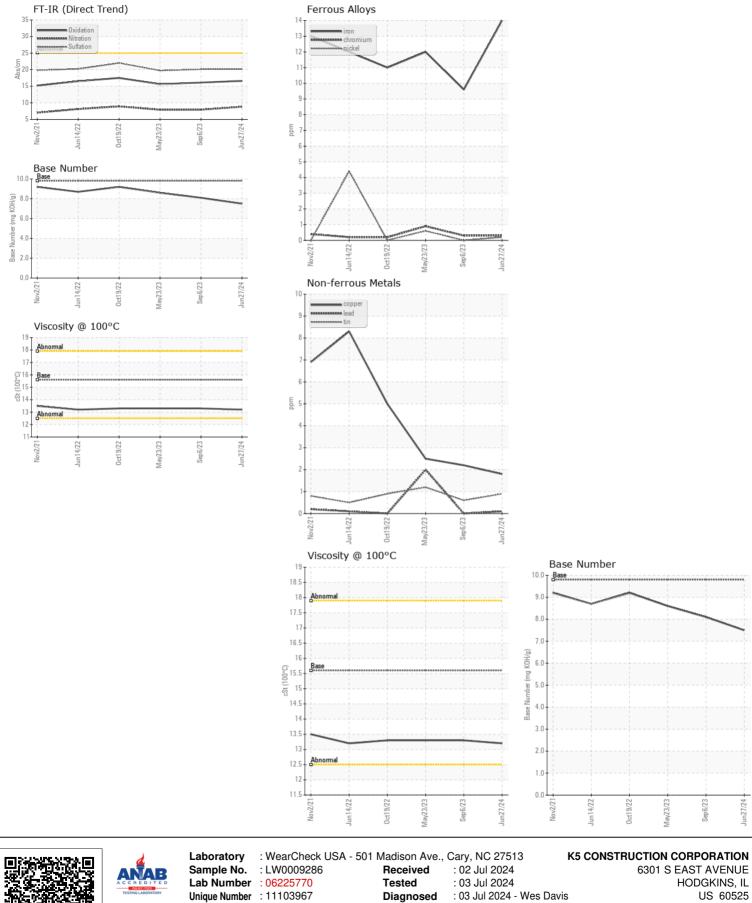
7.5

13.2

8.1

8.6

13.3



Certificate 12367 Test Package : FLEET To discuss this sample report, contact (

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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