OIL ANALYSIS REPORT

1120

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



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

Component Diesel Engine

## LEAHY WOLF PREMIUM 15W40 (3 hrs)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LW0009474	LW0008571	LW0008083
	Sample Date		Client Info		27 Jun 2024	10 Jan 2024	19 Sep 2023
	Machine Age	hrs	Client Info		3581	3321	3051
	Oil Age	hrs	Client Info		3311	270	337
	Filter Age	hrs	Client Info		0	270	337
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	24	8	14
	Chromium	ppm	ASTM D5185m	>20	<1	<1	0
	Nickel	ppm	ASTM D5185m	>2	<1	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	1	0
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		3	1	1
	Lead	ppm	ASTM D5185m	>40	<1	0	0
	Copper	ppm	ASTM D5185m	>330	3	<1	2
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	2	3
CONTAMINATION	Potassium	ppm	ASTM D5185m		3	1	13
There is no indication of any contamination in the oil.	Fuel	ppin	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.L	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	11.2	8.2	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		21.3	18.9	21.1
	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		<1	<1	4
	Boron	ppm	ASTM D5185m		2	2	0
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	12
	Molybdenum	ppm	ASTM D5185m		59	52	58
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		862	905	935
	Calcium	ppm	ASTM D5185m		1040	999	1070
	Phosphorus	ppm	ASTM D5185m		873	1024	1011
	Zinc	ppm	ASTM D5185m		1142	1174	1221
	Sulfur	ppm	ASTM D5185m		2404	2957	3339
	Oxidation	Abs/.1mm	*ASTM D5105/11	>25	2404	16.5	20.5
	Base Number (BN)		ASTM D7414 ASTM D2896		6.8	8.8	7.9
		- Ct		15.0	0.0	10.7	1.0

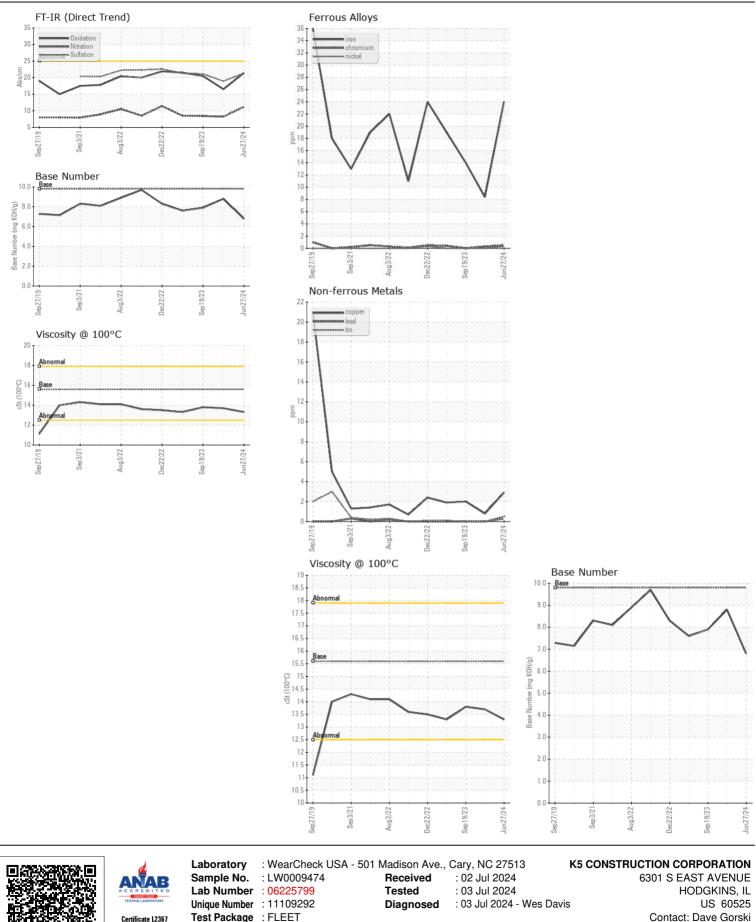
Visc @ 100°C cSt

ASTM D445 15.6

13.7

13.8

13.3



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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