

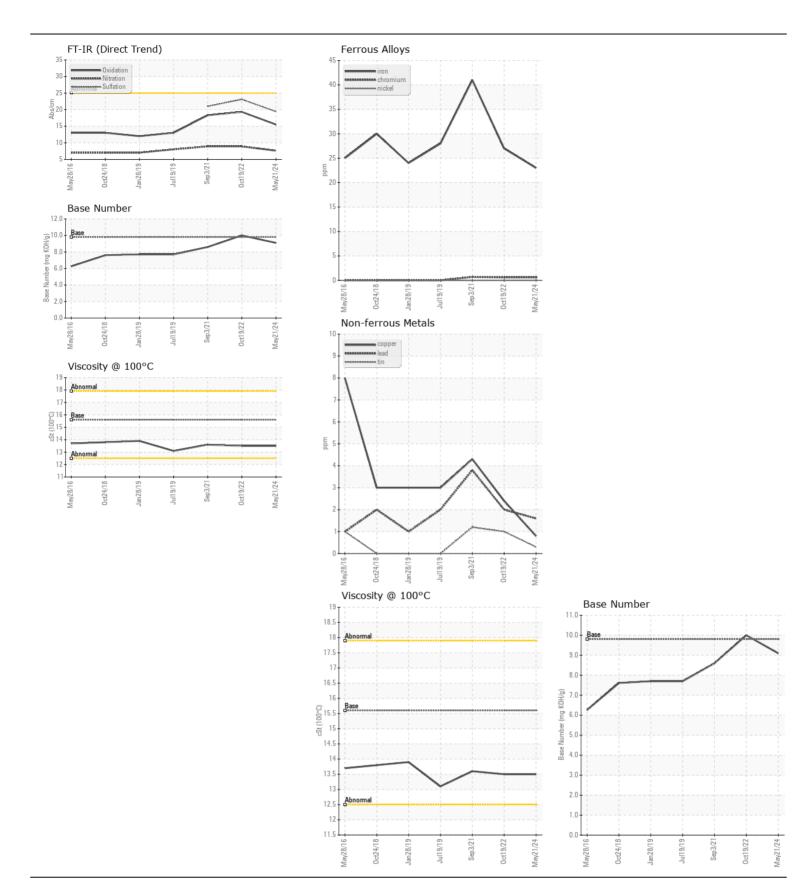
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

K5 CONSTRUCTION CORPORATION - HODGKINS IL

1209

Diesel Engine

LEAHY WOLF PREMIUM 15W4	0 (7 1113)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LW0009205	LW0006003	LW0003055
	Sample Date		Client Info		21 May 2024	19 Oct 2022	03 Sep 2021
	Machine Age	hrs	Client Info		11324	11324	3107
	Oil Age	hrs	Client Info		11324	240	254
	Filter Age	hrs	Client Info		0	240	254
	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	23	27	41
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m	>2	<1	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	0	0
	Aluminum	ppm	ASTM D5185m		2	2	3
	Lead	ppm	ASTM D5185m		2	2	4
	Copper	ppm	ASTM D5185m		- <1	2	4
	Tin	ppm	ASTM D5185m		<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	4	 11
	Potassium	ppm	ASTM D5185m		1	<1	<1
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		- <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.9	8.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.4	23.1	21
	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	1
	Boron	ppm	ASTM D5185m		6	41	94
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	0	0
	Molybdenum	ppm	ASTM D5185m		62	65	57
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		1061	897	967
	Calcium	ppm	ASTM D5185m		1371	1195	1178
	Phosphorus	ppm	ASTM D5185m		1198	982	1081
	Zinc	ppm	ASTM D5185m		1473	1210	1255
	41110	PPIII					
	Sulfur	nnm	ASTM D5185m		4056	3523	2784
	Sulfur	ppm Ahs/ 1mm	*ASTM D7414	>25	4056 15.5	3523 19.3	2784 18.3
	Sulfur Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		4056 15.5 9.1	3523 19.3 10.0	18.3 8.6







Certificate L2367

Laboratory Sample No.

: LW0009205 Lab Number : 06193194 Unique Number : 11049946 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 May 2024 **Tested** : 30 May 2024

: 30 May 2024 - Wes Davis Diagnosed

K5 CONSTRUCTION CORPORATION

6301 S EAST AVENUE HODGKINS, IL US 60525

Contact: Dave Gorski daveg@k-five.net T: (630)257-5600

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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