**OIL ANALYSIS REPORT** 

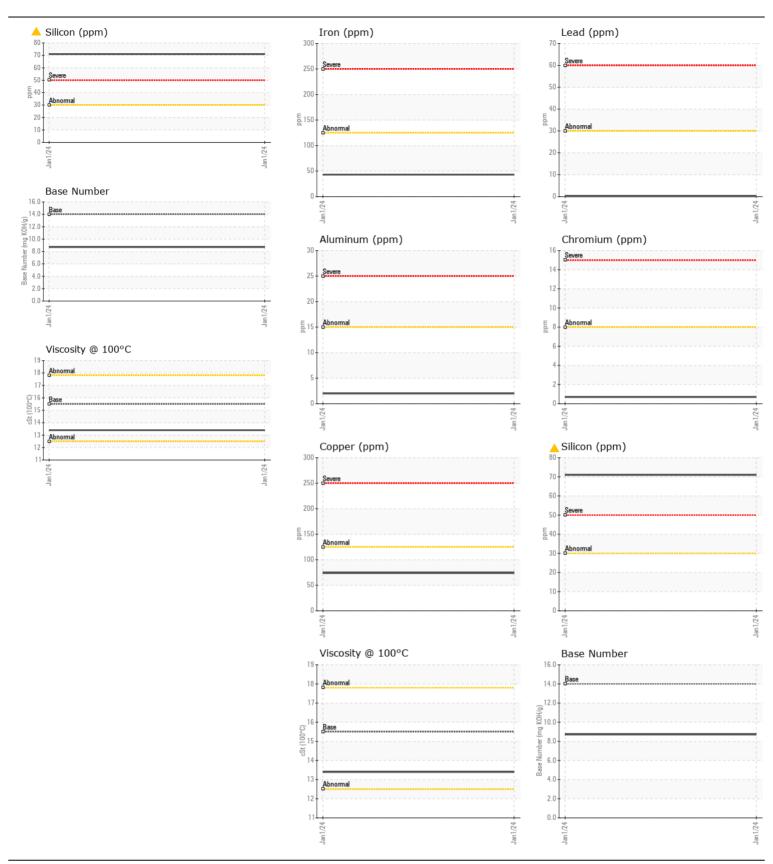
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

## **TIGERCAT 620H 6209618**

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
THE CHIMENDATION	Sample Number	COM	Client Info	LITTIO / COTT	TR06057474		
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		01 Jan 2024		
	Machine Age	hrs	Client Info		256		
	Oil Age	hrs	Client Info		256		
	Filter Age	hrs	Client Info		256		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>125	43		
	Chromium	ppm	ASTM D5185m	>8	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>15	2		
	Lead	ppm	ASTM D5185m	>30	<1		
	Copper	ppm	ASTM D5185m	>125	74		
	Tin	ppm	ASTM D5185m	>5	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONT A BUILD TION					<u> </u>		
CONTAMINATION	Silicon	ppm	ASTM D5185m		<u>^</u> 71		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m		3		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844		0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.3		
	Sulfation	Abs/.1mm	*ASTM D7415		18.9		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		<1		
LOID CONDITION	Boron	ppm ppm	ASTM D5185m		18		
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		
	Molybdenum	• •	ASTM D5185m		9		
	Manganese	ppm	ASTM D5185m		4		
	Magnesium	ppm	ASTM D5185m		4 79		
	Calcium	ppm	ASTM D5185m	1300	2508		
	Phosphorus		ASTM D5185m	1000	857		
	Zinc	ppm	ASTM D5185m	1200	1058		
	Sulfur	ppm	ASTM D5185m	1300			
	Oxidation	ppm Abo/ 1mm	*ASTM D5185m	- 2F	3422		
	Base Number (BN)	Abs/.1mm			14.1 8.72		
	Dase mulliper (BIN)	IIIg NUT/g	49 LIVI D7030	14	0.12		







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: TR06057474 : 06057474 : 10823423 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 10 Jan 2024 : 12 Jan 2024 Diagnosed : Sean Felton

Diagnostician

**RICH KLEIN** 64 PUMPKIN CREEK RD WAVERLY, TN US 37185

Contact: RICH KLEIN THREERIVERSFORESTRY@YAHOO.COM

To discuss this sample report, contact Customer Service at 1-800-827-0711. \* - 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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F: