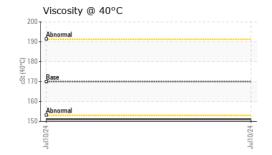
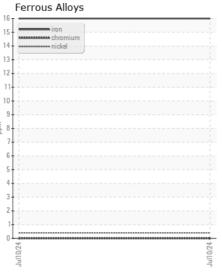
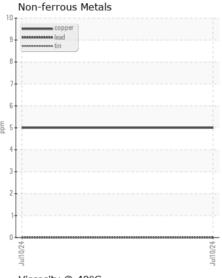
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

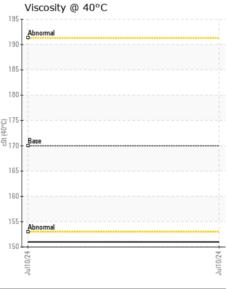
LIEBHERR L18 L1819 (S/N 111105) Component Pump Drive Fluid

LIEBHERR GEAR BASIC 90 LS (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0273719		
nesample at the next service interval to monitor.	Sample Date		Client Info		10 Jul 2024		
	Machine Age	hrs	Client Info		1794		
	Oil Age	hrs	Client Info		794		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>500	16		
	Chromium	ppm	ASTM D5185m		0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	710	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>20	<1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m	>35	5		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	0		AOTA DE405				
CONTAMINATION	Silicon	ppm	ASTM D5185m		2		
There is no indication of any contamination in the oil.	Potassium Water	ppm	ASTM D5185m WC Method		1 NEG		
	Silt	cooler	*Visual	NONE	NONE		
	Debris	scalar 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		
ELUD CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0	4		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		0		
	Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		2		
	Calcium	ppm	ASTM D5185m		55		
	Phosphorus	ppm	ASTM D5185m		1124		
	Zinc	ppm	ASTM D5185m		85		
	Sulfur	ppm	ASTM D5185m		29195		
	Visc @ 40°C	cSt	ASTM D445		151		
Report Id: PETREII H [WIJSCAR] 06237181 (Generated: 07/17/2024 16:21:24) Rev: 1					nr: WADE V	ANHAVENI.	DETREII H











Certificate L2367

Laboratory Sample No.

: LH0273719 Lab Number : 06237181 Unique Number : 11126015 Test Package : CONST

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 15 Jul 2024 **Tested** : 17 Jul 2024

Diagnosed : 17 Jul 2024 - Don Baldridge PETERSON CONTRACTORS INC PO BOX A REINBECK, IA

US 50669 Contact: WADE VANHAVEN

MBERWALD@PCIUS.COM T:

* - 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)

F: