WEAR CONTAMINATION FLUID CONDITION

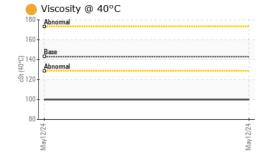
NORMAL
ABNORMAL
ATTENTION

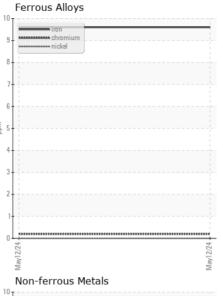


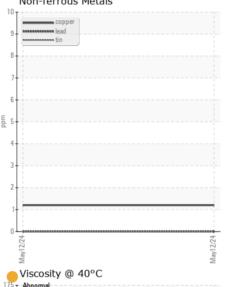
Machine Id **LIEBHERR LH110 155976-1227**

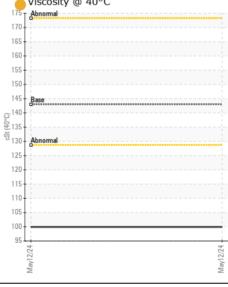
Transmission (Manual)

GEAR OIL SAE 80W90 (GAL)						
RECOMMENDATION The fluid change at the time of sampling has been noted. Resample at the next service interval to monitor.	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LH0267556		
	Sample Date		Client Info		12 May 2024		
	Machine Age	hrs	Client Info		1951		
	Oil Age	hrs	Client Info		956		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>200	10		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>5	<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>7	<1		
	Aluminum	ppm	ASTM D5185m	>25	<1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>125	2		
There is a moderate amount of visible silt present in the sample.	Potassium	ppm	ASTM D5185m	>20	2		
	Water		WC Method	>0.1	NEG		
	Silt	scalar	*Visual	NONE	▲ MODER		
	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	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	1		
The fluid viscosity is lower than normal.	Boron	ppm	ASTM D5185m	400	3		
	Barium	ppm	ASTM D5185m	200	0		
	Molybdenum	ppm	ASTM D5185m	12	3		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		14		
	Calcium	ppm	ASTM D5185m		229		
	Phosphorus	ppm		1650	629		
	Zinc	ppm	ASTM D5185m		105		
	Sulfur	ppm		22500	14319		
	Visc @ 40°C	cSt	ASTM D445	143	99.9		











Certificate L2367

Laboratory Sample No.

: LH0267556 Lab Number : 06192636 Unique Number : 11049388 Test Package : CONST

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

Diagnosed : 30 May 2024 - Don Baldridge

4301 IVERSON TRINITY, AL US 35601 Contact: RICKY JOHNSON

KINDER MORGAN

ricky_johnson@kindermorgan.com

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) F: (256)355-5250

Report Id: KINTRI [WUSCAR] 06192636 (Generated: 05/30/2024 16:34:57) Rev: 1

Contact/Location: RICKY JOHNSON - KINTRI