

WEAR CONTAMINATION FLUID CONDITION

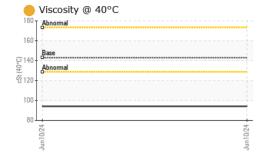
NORMAL NORMAL ATTENTION

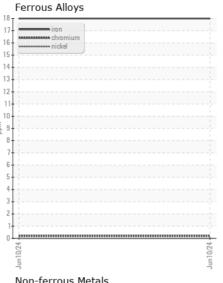


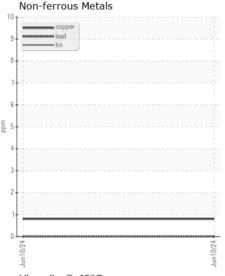
Machine Id LIEBHERR LH80M 1218-157090

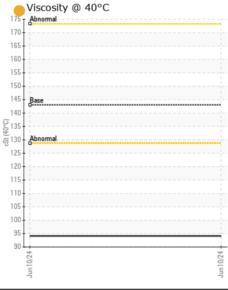
Transmission (Manual)

GEAR OIL SAE 80W90 (GAL))						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		LH0267074		
	Sample Date		Client Info		10 Jun 2024		
	Machine Age	hrs	Client Info		2008		
	Oil Age	hrs	Client Info		1035		
	Filter Age	hrs	Client Info		1035		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ATTENTION		
WEAR	Iron	ppm	ASTM D5185m	>200	18		
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	0		
	Aluminum	ppm	ASTM D5185m	>25	2		
	Lead	ppm	ASTM D5185m	>45	0		
	Copper	ppm	ASTM D5185m	>225	<1		
	Tin	ppm	ASTM D5185m	>10	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>125	3		
There is no indication of any contamination in the fluid.	Potassium	ppm	ASTM D5185m		2		
There is no indication of any contamination in the hald.	Water		WC Method	>0.1	NEG		
	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	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>170	0		
The fluid viscosity is lower than normal. Confirm oil type.	Boron	ppm	ASTM D5185m	400	5		
	Barium	ppm	ASTM D5185m	200	0		
	Molybdenum	ppm	ASTM D5185m	12	2		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		28		
	Calcium	ppm	ASTM D5185m		191		
	Phosphorus	ppm	ASTM D5185m		826		
	Zinc	ppm	ASTM D5185m		147		
	Sulfur	ppm	ASTM D5185m		15454		
Papart Id: VINTDI IMI ISCADI 06316313 (Caparatad: 06/32/3034 13:30:56) Pays 1	Visc @ 40°C	cSt	ASTM D445		94.1	 XX IOHNEOI	 N KINTDI











Certificate L2367

Laboratory Sample No.

: LH0267074 Lab Number : 06216212 Unique Number : 11089076 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Jun 2024 **Tested** : 23 Jun 2024

Diagnosed : 23 Jun 2024 - Don Baldridge

TRINITY, AL US 35601 Contact: RICKY JOHNSON

KINDER MORGAN

4301 IVERSON

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. ricky_johnson@kindermorgan.com

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (256)355-5250 Contact/Location: RICKY JOHNSON - KINTRI