

# **OIL ANALYSIS REPORT**



## Machine Id 141538

#### Component Transmission Fluid LIEBHERR GEAR HYPOID 90 EP (--- GAL)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

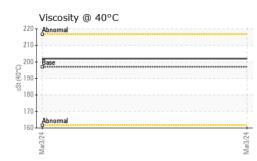
### Fluid Condition

The condition of the oil is acceptable for the time in service.

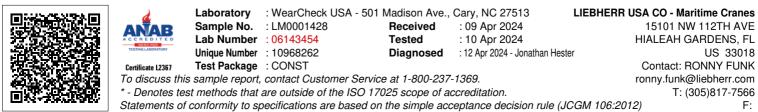
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LM0001428		
Sample Date		Client Info		03 Mar 2024		
Machine Age	hrs	Client Info		13245		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	44		
Chromium	ppm	ASTM D5185m	>10	1		
Nickel	ppm	ASTM D5185m		1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>50	2		
Lead	ppm	ASTM D5185m	>50	<1		
Copper	ppm	ASTM D5185m	>200	3		
Tin	ppm	ASTM D5185m	>10	1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		<1		
Molybdenum	ppm	ASTM D5185m		2		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		5		
Calcium	ppm	ASTM D5185m		22		
Phosphorus	ppm	ASTM D5185m		336		
Zinc	ppm	ASTM D5185m		86		
Sulfur	ppm	ASTM D5185m		20207		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	5		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	2		
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Precipitate	scalar	*Visual	NONE	NONE		
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		
Free Water	scalar	*Visual		NEG		
2:51:22) Rev: 1				Contact/Lo	ocation: RONNY	FUNK - LIEHIA



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Visc @ 40°C	cSt	ASTM D445	197	202		
SAMPLE IMAGE		method	limit/base	current	history1	history2
	0	method		ourront		
Color				no image	no image	no image
000				no image	no image	no image
Bottom				no image	no image	no image
GRAPHS						
Ferrous Alloys						
iron						
5- children nickel						
) <b>-</b> 5 <b>-</b>						
)						
) <b>-</b>						
D						
Mar3/24			Mar3/24			
– Non-ferrous Meta	ls					
copper						
assessment lead						
7-						
5-						
4						
3						
1-	*****		****			
Mar3/24			Mar3/24 -			
			Ma			
Viscosity @ 40°C						
<b>Q</b>						
Base						
).						
D <b>-</b>						
D						
Abnormal						
/24			Mar3/24			
Mar3/24			no			



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