

OIL ANALYSIS REPORT



Machine Id

141538 Component 1 Slewing Gearbox 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.

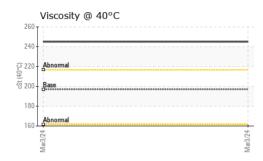
Fluid Condition

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

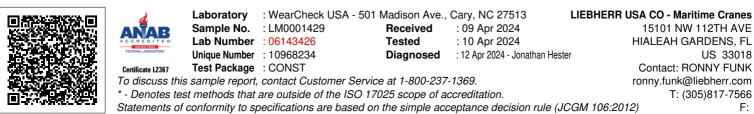
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LM0001429		
Sample Date		Client Info		03 Mar 2024		
Machine Age	hrs	Client Info		13245		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	19		
Chromium	ppm	ASTM D5185m	>5	<1		
Nickel	ppm	ASTM D5185m	>5	<1		
Titanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		2		
Lead	ppm	ASTM D5185m	>5	_ <1		
Copper	ppm	ASTM D5185m	>35	2		
Tin	ppm	ASTM D5185m	>5	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		6		
Calcium	ppm	ASTM D5185m		23		
Phosphorus	ppm	ASTM D5185m		416		
Zinc	ppm	ASTM D5185m		12		
Sulfur	ppm	ASTM D5185m		21010		
CONTAMINANTS	i i	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4		
Sodium	ppm	ASTM D5185m		2		
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	>0.2	NEG		
Free Water	scalar	*Visual		NEG		
2:53:31) Rev: 1					ocation: RONNY	Ý FUNK - LIEHIA



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Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	cSt	ASTM D445 method	197 limit/base	245 current no image no image	no image	no image
Color Bottom GRAPHS Ferrous Alloys		method	limit/base	no image	no image	no image
Bottom GRAPHS Ferrous Alloys						
Bottom GRAPHS Ferrous Alloys						
GRAPHS Ferrous Alloys				no image	no image	no image
GRAPHS Ferrous Alloys				no image	no image	no image
GRAPHS Ferrous Alloys				no image	no image	no image
Ferrous Alloys						
Ferrous Alloys						
iron chromium nickel						
nickel						
724			/24			
Mar3/24			Mar3/24			
Non-ferrous Metals	5					
L						
copper						
tin						
-						
Mar3/24			Mar3/24			
			2			
Viscosity @ 40°C						
-						
- i 						
- Abnormal						
- Base						
Base						
Abnormal						
19			24			
Mar3/24			Mar3/24			



Contact/Location: RONNY FUNK - LIEHIA

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