

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 142001 - SG4

Component

Gearbox

LIEBHERR GEAR HYPOID 90 EP (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

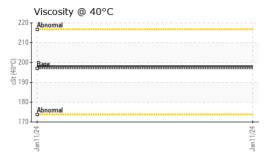
Fluid Condition

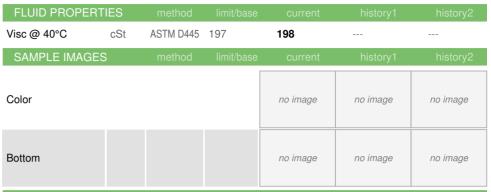
The condition of the oil is acceptable for the time in service.

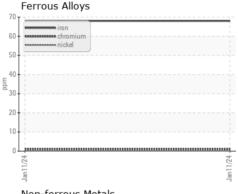
				Jan 2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LM0000710		
Sample Date		Client Info		11 Jan 2024		
Machine Age	hrs	Client Info		517		
Oil Age	hrs	Client Info		517		
Oil Changed	0	Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>200	68		
Chromium	ppm	ASTM D5185m	>10	1		
Vickel	ppm		>10	<1		
Titanium	ppm	ASTM D5185m	/10	0		
Silver		ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead		ASTM D5185m	>50	<1		
Lead Copper	ppm	ASTM D5185m	>200	<1 <1		
Zoppei Tin		ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m	>10	0		
Cadmium	ppm	ASTM D5185m		0		
	ppm			-		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		1		
Calcium	ppm	ASTM D5185m		44		
Phosphorus	ppm	ASTM D5185m		1269		
Zinc	ppm	ASTM D5185m		3		
Sulfur	ppm	ASTM D5185m		27515		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	1		
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		
E4.4E) Down 1				Cambant/La	t' DONINIV	FUNIZ LIFLII

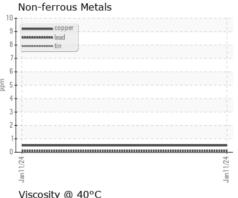


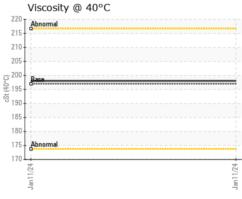
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Laboratory

Sample No. Lab Number Unique Number : 10836603

: LM0000710 : 06065221 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 18 Jan 2024

Diagnosed : 19 Jan 2024

Diagnostician : Wes Davis

Certificate L2367 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)

LIEBHERR USA CO - Maritime Cranes

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Contact/Location: RONNY FUNK - LIEHIA