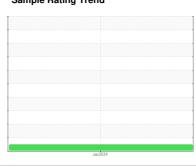


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



B-3-4 LO

Component

Wind Turbine Gearbox

GEAR OIL (PAO) ISO 320 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

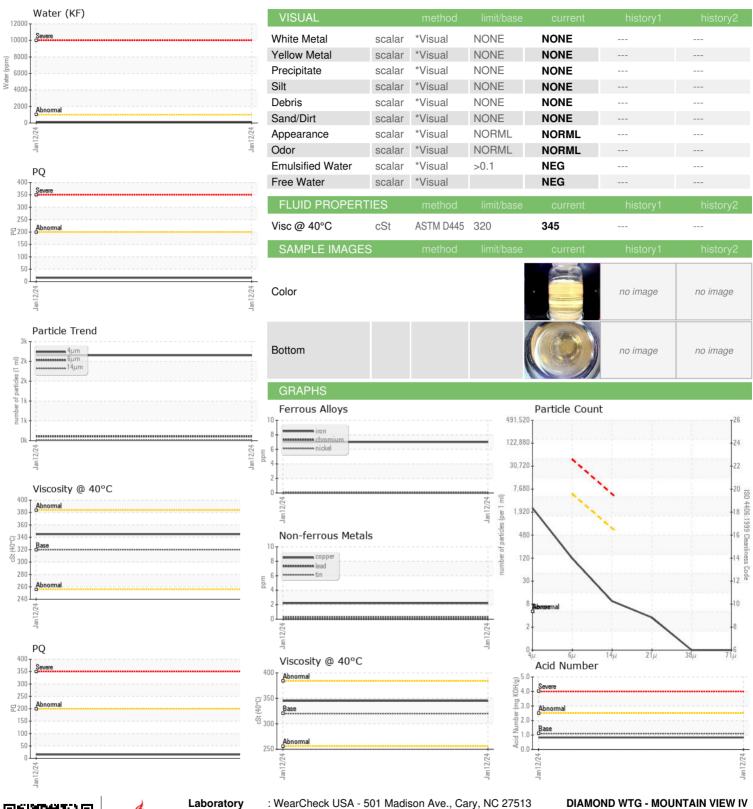
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

				Jan2024		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026454		
Sample Date		Client Info		12 Jan 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	15		
Iron	ppm	ASTM D5185m	>200	7		
Chromium	ppm	ASTM D5185m	>3	0		
	ppm	ASTM D5185m	>3	0		
Titanium	ppm	ASTM D5185m	>10	<1		
Silver	ppm	ASTM D5185m	7.10	0		
Aluminum		ASTM D5185m	>30	1		
	ppm			0		
Lead	ppm	ASTM D5185m	>15	-		
	ppm	ASTM D5185m	>75	2		
Tin	ppm	ASTM D5185m	>10	<1		
	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	25	0		
Barium	ppm	ASTM D5185m	12	0		
Molybdenum	ppm	ASTM D5185m	5	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m	25	1		
Calcium	ppm	ASTM D5185m	25	0		
Phosphorus	ppm	ASTM D5185m	375	403		
Zinc	ppm	ASTM D5185m	25	0		
Sulfur	ppm	ASTM D5185m	4900	3950		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	3		
Sodium	ppm	ASTM D5185m		<1		
Potassium	ppm	ASTM D5185m	>20	<1		
	%	ASTM D6304	>0.1	0.013		
ppm Water	ppm	ASTM D6304	>1000	139		
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		2152		
Particles >6µm		ASTM D7647	>5000	104		
Particles >14µm		ASTM D7647	>640	8		
Particles >21µm		ASTM D7647	>160	3		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>40	0		
Oil Cleanliness		ISO 4406 (c)	>/19/16	18/14/10		
FLUID DEGRADAT	ПОИ	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: MHI026454 : 06075767

: 10857858

Recieved

: 31 Jan 2024 Diagnosed : 01 Feb 2024

Diagnostician : Don Baldridge

Test Package: IND 2 (Additional Tests: KF, PQ, PrtCount) 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)

P.O. BOX 880

DESERT HOT SPRINGS, CA

Contact: SERVICE MANAGER

US 92240

F: (760)329-7122