

OIL ANALYSIS REPORT

Oil Changed

Sample Status

Sample Rating Trend

NORMAL

NOT GIVEN MHI007425 (S/N UNKNOWN - N

Wind Turbine Gearbox

MOBIL MOBILGEAR SHC XMP 320 (--- 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 component. The amount and size of particulates present in the system is acceptable.

Fluid Condition

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

NO INFO ON BOT	ΓTLE)					V	
-)				Dec2015			
SAMPLE INFORM	ATION	method	limit/base	current	history1		histo
Sample Number		Client Info		MHI007425			
Sample Date		Client Info		02 Dec 2015			
Machine Age	hrs	Client Info		45468			
Oil Age	hrs	Client Info		0			

Client Info

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	17.0		
Iron	ppm	ASTM D5185m	>200	7		
Chromium	ppm	ASTM D5185m		<1		
Nickel	ppm	ASTM D5185m		0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m		<1		
Lead	ppm	ASTM D5185m		1		
Copper	ppm	ASTM D5185m	>75	6		
Tin	ppm	ASTM D5185m		0		
Antimony	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2

N/A

NORMAL

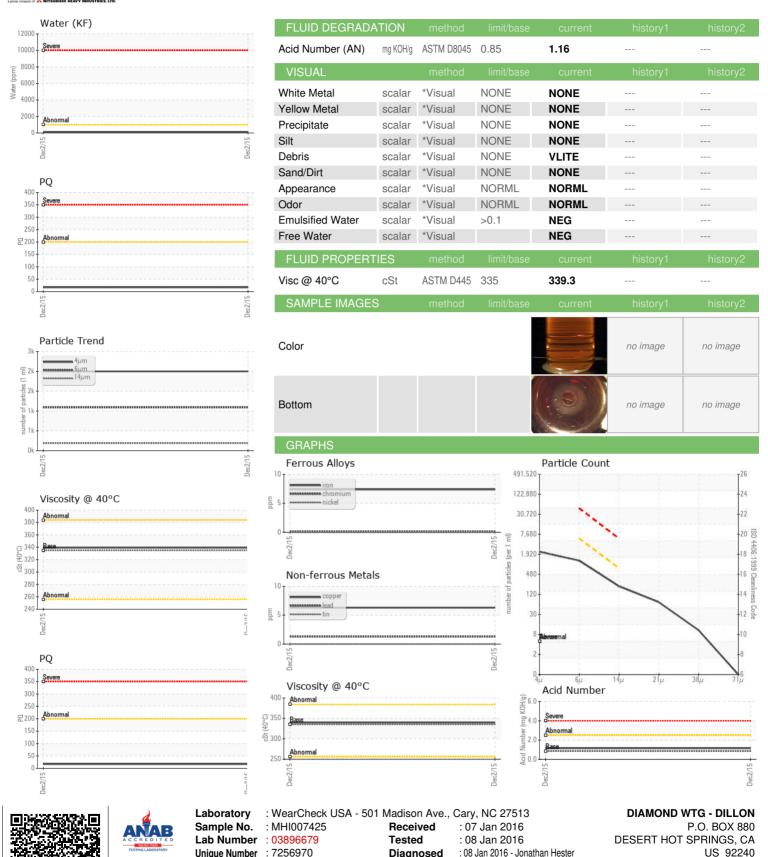
ADDITIVES		method				history2
Boron	ppm	ASTM D5185m	0	0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m	0	0		
Phosphorus	ppm	ASTM D5185m	485	322		
Zinc	ppm	ASTM D5185m	0	12		
Sulfur	ppm	ASTM D5185m		3750		
CONTAMINANTS		method	limit/base	current	history1	history2

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1		
Sodium	ppm	ASTM D5185m	>15	0		
Potassium	ppm	ASTM D5185m	>20	0		
Water	%	ASTM D6304	>0.1	0.009		
ppm Water	ppm	ASTM D6304	>1000	90		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		2000		
Particles >6µm	ASTM D7647	>5000	1089		
Particles >14μm	ASTM D7647	>640	185		
Particles >21µm	ASTM D7647	>160	62		
Particles >38μm	ASTM D7647	>40	9		
Particles >71μm	ASTM D7647	>10	0		
Oil Cleanliness	ISO 4406 (c)	>/19/16	18/17/15		



OIL ANALYSIS REPORT



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

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

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.

Certificate L2367

Contact: DANIEL BOYD

T: (760)329-7171

F: (760)329-7122

daniel.boyd@diamondwtg.com