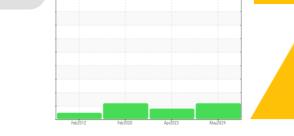


## **OIL ANALYSIS REPORT**

Sample Rating Trend



ISO

H-01 Component Wind Turbine Gearbox Fluid ROYAL PURPLE SYNFILM GT 320 (65 GAL)

#### DIAGNOSIS

Machine Id

#### A Recommendation

Replace filter element and resample at later date. In case already attempted and cleanliness was not improved then proceed to replace oil.

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid.

	method	limit/base	current	history1	history2
C	Client Info		MHI026368	MHI021593	MHI023830
C	Client Info		03 May 2024	27 Apr 2023	14 Feb 2020
s C	Client Info		0	0	0
s C	Client Info		0	0	0
C	Client Info		N/A	N/A	N/A
			ABNORMAL	ABNORMAL	ABNORMAL
	method	limit/base	current	history1	history2
A	STM D8184	>200	30	12	30
om A	STM D5185m	>200	20	10	21
om A	STM D5185m	>3	0	<1	<1
om A	STM D5185m	>3	<1	0	0
om A	STM D5185m	>10	0	<1	0
om A	STM D5185m		0	0	0
om A	STM D5185m	>30	<1	2	0
	STM D5185m	>15	0	0	0
		>75	2	2	15
	STM D5185m	>10	0	0	0
om A	STM D5185m	>5			0
	STM D5185m		0	0	0
	STM D5185m		0	0	0
	method	limit/base	current	history1	history2
om A	STM D5185m		0	0	<1
om A	STM D5185m		<1	0	0
om A	STM D5185m		<1	<1	4
om A	STM D5185m		<1	0	0
om A	STM D5185m	90	42	57	1
om A	STM D5185m		2	1	<1
om A	STM D5185m		7	0	25
om A	STM D5185m		10	0	0
om A	STM D5185m		22149	22918	12856
	method	limit/base	current	history1	history2
om A	STM D5185m	>+30	4	4	2
om A	STM D5185m		1	0	0
om A	STM D5185m	>20	2	2	0
A	STM D6304	>0.1	0.006	0.016	0.003
om A	STM D6304	>1000	70	161	27.5
S	method	limit/base	current	history1	history2
	STM D7647		158419		77682
A					
	STM D7647	>5000	<u> </u>		▲ 16424
A	STM D7647	>5000 >640	▲ 82029 ▲ 2021		<ul><li>▲ 16424</li><li>▲ 811</li></ul>
A		>640			
A A A	STM D7647	>640	<u> </u>		<b>A</b> 811
A A A	STM D7647 STM D7647	>640 >160	▲ 2021 149		▲ 811 ▲ 203
	A A A A A A A A A A A A A A A A A A A	S Client Info Client Info Client Info ASTM D8184 ASTM D8184 ASTM D5185m ASTM D5185m	S       Client Info         Client Info       Client Info         Client Info       Imit/base         ASTM D8184       >200         ASTM D5185m       >200         ASTM D5185m       >3         ASTM D5185m       >3         ASTM D5185m       >3         ASTM D5185m       >10         ASTM D5185m       >30         ASTM D5185m       >30         ASTM D5185m       >10         ASTM D5185m       >30         ASTM D5185m       >10         ASTM D5185m       90         ASTM D5185m       >430 <t< th=""><td>S         Client Info         0           Client Info         N/A           ABNORMAL           method         limit/base         current           ASTM D8184         &gt;200         30           pm         ASTM D5185m         &gt;200         20           pm         ASTM D5185m         &gt;3         0           pm         ASTM D5185m         &gt;3         0           pm         ASTM D5185m         &gt;3         1           pm         ASTM D5185m         &gt;30         &lt;1</td>           pm         ASTM D5185m         &gt;10         0           pm         ASTM D5185m         &gt;15         0           pm         ASTM D5185m         &gt;10         0           pm         ASTM D5185m         &gt;5            pm         ASTM D5185m         &gt;5            pm         ASTM D5185m         0         0           pm         ASTM D5185m         0         0           pm         ASTM D5185m         0         1           pm         ASTM D5185m         &lt;1         1           pm         ASTM D5185m         &lt;1         1           pm         AS<td>S         Client Info         0         0           Client Info         N/A         N/A           Client Info         N/A         ABNORMAL           Method         limit/base         current         history1           ASTM D8184         &gt;200         30         12           orm         ASTM D5185m         &gt;200         20         10           orm         ASTM D5185m         &gt;3         &lt;1</td>         0           orm         ASTM D5185m         &gt;3         &lt;1         0           orm         ASTM D5185m         &gt;3         &lt;1         0           orm         ASTM D5185m         &gt;3         &lt;1         0           orm         ASTM D5185m         &gt;10         0         &lt;1           orm         ASTM D5185m         &gt;10         0         0           orm         ASTM D5185m          &lt;1         0&lt;</t<>	S         Client Info         0           Client Info         N/A           ABNORMAL           method         limit/base         current           ASTM D8184         >200         30           pm         ASTM D5185m         >200         20           pm         ASTM D5185m         >3         0           pm         ASTM D5185m         >3         0           pm         ASTM D5185m         >3         1           pm         ASTM D5185m         >30         <1	S         Client Info         0         0           Client Info         N/A         N/A           Client Info         N/A         ABNORMAL           Method         limit/base         current         history1           ASTM D8184         >200         30         12           orm         ASTM D5185m         >200         20         10           orm         ASTM D5185m         >3         <1



200

400

380 360

(J) 340 (J) 320 (J) 320 (J) 320 (J) 320 (J) 320 (J) 340 (J) 320 (J) 320 (J) 320 (J) 320

280 - Abnorm

240

Ab

Feb 1/

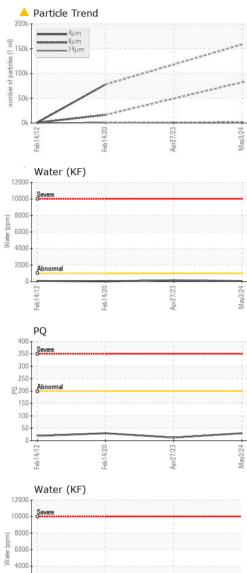
В

leb1

Feb 14/20

Feb14/20

Viscosity @ 40°C



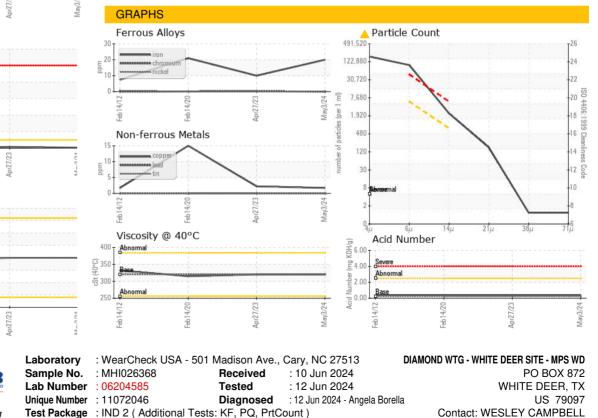
# **OIL ANALYSIS REPORT**

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.38	0.36	0.394
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	🔺 HEAVY	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320	320	320	315
SAMPLE IMAGES	S	method	limit/base	current	history1	history2

Color



Bottom



Certificate 12367 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)

Contact/Location: WESLEY CAMPBELL - MITWHI

wesley.campbell@diamondwtg.com

Page 2 of 2

T: (806)883-1051

F: (806)883-2004