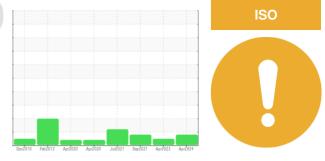


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

F-06 Component Wind Turbine Gearbox Fluid ROYAL PURPLE SYNFILM GT 320 (65 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

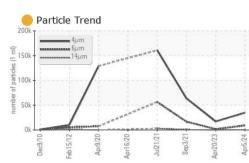
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

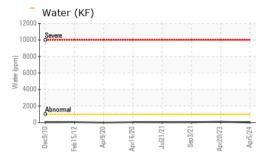
Fluid Condition

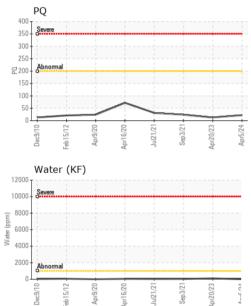
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

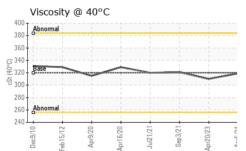
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026437	MHI021539	MHI017367
Sample Date		Client Info		05 Apr 2024	20 Apr 2023	03 Sep 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	22	13	24
Iron	ppm	ASTM D5185m	>200	4	7	12
Chromium	ppm	ASTM D5185m	>3	0	<1	0
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m	>10	0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	0	2	0
Lead	ppm	ASTM D5185m	>15	0	0	<1
Copper	ppm	ASTM D5185m	>75	8	8	6
Tin	ppm	ASTM D5185m	>10	<1	0	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		3	6	5
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	<1	2	2
Calcium	ppm	ASTM D5185m		1	0	0
Phosphorus	ppm	ASTM D5185m		15	0	25
Zinc	ppm	ASTM D5185m		6	0	0
Sulfur	ppm	ASTM D5185m		20241	20317	15135
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	3	3	3
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	2	1	0
Water	%	ASTM D6304	>0.1	0.001	0.010	0.004
ppm Water	ppm	ASTM D6304	>1000	9	104	40.0
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		34853	17086	63829
Particles >6µm		ASTM D7647	>5000	9143	1686	🔺 16728
Particles >14µm		ASTM D7647	>640	468	23	6 91
Particles >21µm		ASTM D7647	>160	72	5	70
Particles >38µm		ASTM D7647	>40	1	0	3
Particles >71µm		ASTM D7647	>10	0	0	0









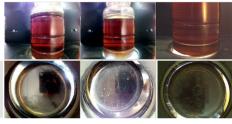


Certificate 12367

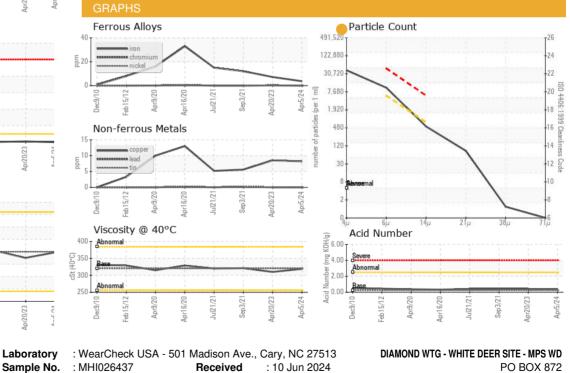
OIL ANALYSIS REPORT

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.25	0.39	0.41	0.42
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	LIGHT	NONE	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	319	310	321
SAMPLE IMAGES	6	method	limit/base	current	history1	history2

Color



Bottom



: 11 Jun 2024

Tested

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Diagnosed

PO BOX 872 WHITE DEER, TX : 12 Jun 2024 - Angela Borella US 79097 Contact: WESLEY CAMPBELL wesley.campbell@diamondwtg.com T: (806)883-1051 F: (806)883-2004



Lab Number : 06204583

Unique Number : 11072044

Laboratory

Contact/Location: WESLEY CAMPBELL - MITWHI

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