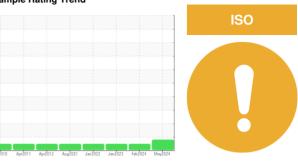


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

B-05

Component
Wind Turbine Gearbox

ROYAL PURPLE SYNFILM GT 320 (65 GAL)

Recommendation

No corrective action is recommended at this time. 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.

-)		0ct2010	Aprž011 Aprž012 Augž0	021 Jan2022 Jan2023 Feb2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026395	MHI021588	MHI020604
Sample Date		Client Info		14 May 2024	21 Feb 2024	10 Jan 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	97187
Oil Changed	1113	Client Info		N/A	N/A	Not Changd
		Ciletit IIIIO		ATTENTION	NORMAL	NORMAL
Sample Status				ATTENTION	NORWAL	NORIVIAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	20	15	15
Iron	ppm	ASTM D5185m	>200	4	4	7
Chromium	ppm	ASTM D5185m	>3	0	<1	0
Nickel	ppm	ASTM D5185m	>3	<1	0	0
Titanium	ppm	ASTM D5185m	>10	0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>30	0	0	0
Lead	ppm	ASTM D5185m	>15	0	0	0
Copper	ppm	ASTM D5185m	>75	21	10	7
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		6	6	11
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	<1	0	<1
Calcium	ppm	ASTM D5185m		1	35	0
Phosphorus	ppm	ASTM D5185m		30	28	31
Zinc	ppm	ASTM D5185m		9	6	0
Sulfur	ppm	ASTM D5185m		20381	20088	19708
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	2	1	1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	3	<1	0
Water	%	ASTM D6304	>0.1	0.002	0.001	0.003
ppm Water	ppm	ASTM D6304	>1000	22	15	33.3
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		35120	24854	3385
Particles >6µm		ASTM D7647	>5000	8549	3775	344
Particles >14μm		ASTM D7647	>640	369	343	12
Particles >21μm		ASTM D7647		74	93	4
Particles >38µm		ASTM D7647	>40	2	3	0
Particles >30µm		ASTM D7647	>40	0	0	0
		ISO 4406 (c)	>/19/16			
Oil Cleanliness				22/20/16	22/19/16	19/16/11



OIL ANALYSIS REPORT







Certificate 12367

Report Id: MITWHI [WUSCAR] 06204580 (Generated: 06/12/2024 17:22:14) Rev: 1

Laboratory Sample No.

: MHI026395 : 06204580

Lab Number Unique Number : 11072041

Tested : 12 Jun 2024 Diagnosed

Received

Test Package : IND 2 (Additional Tests: KF, PQ, PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: 12 Jun 2024 - Angela Borella

: 10 Jun 2024

Contact: WESLEY CAMPBELL wesley.campbell@diamondwtg.com T: (806)883-1051

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

Contact/Location: WESLEY CAMPBELL - MITWHI

PO BOX 872

US 79097

WHITE DEER, TX

F: (806)883-2004