

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

W-05 Component Wind Turbine Gearbox Fluid MITSUBISHI Daphne Alpha Winforce (70 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI017978	MHI018904	MHI04801399
Sample Date		Client Info		06 Jul 2020	18 Dec 2019	27 Aug 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>200	17	20	18
Iron	ppm	ASTM D5185m	>200	33	26	27
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m	>75	4	3	2
Tin	ppm	ASTM D5185m	-	<1	<1	<1
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	J- I-	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		<1	0	0
Phosphorus	ppm	ASTM D5185m		393	335	348
Zinc	ppm	ASTM D5185m		0	1	2
Sulfur	ppm	ASTM D5185m		5157	5581	4157
CONTAMINANTS		method	limit/base	current	history1	history2
					· · · · ·	
Silicon	ppm	ASTM D5185m	>+30	4	2	3
Sodium	ppm	ASTM D5185m	00	0	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304		0.010	0.006	0.008
ppm Water	ppm	ASTM D6304	>1000	103.1	66.2	89.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	5000	4486	6282	
Particles >6µm		ASTM D7647		856	1336	
Particles >14µm		ASTM D7647	>640	53	62	
Particles >21µm		ASTM D7647		13	19	
Particles >38µm		ASTM D7647	>40	3	7	
Particles >71µm		ASTM D7647		2	6	
Oil Cleanliness		ISO 4406 (c)	>/19/16	19/17/13	20/18/13	



Water (KF)

Vov16/10

1/2 um

Particle Trend

Sep2/1

Abnorma

Viscosity @ 40°C

40k 35k 30k 25k 20k

to 15k Jaquini 5k 0k

400

380

360

() 340 () 320 \$3 300

280 Abr

240

350 300

250

150

100

50

Jov16/10

PQ

문 200 Ab

12/12/1

Dec12/14

Pc12/14

17/1/ul

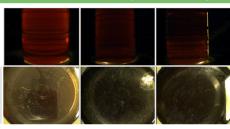
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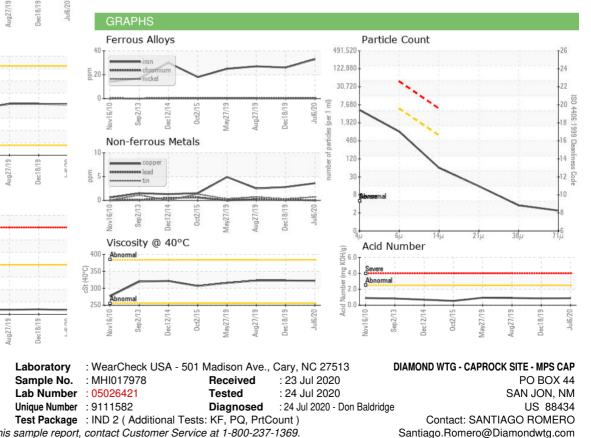
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.870	0.842	0.908
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	🔺 MODER
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	ΓIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		322	323	323
SAMPLE IMAGE	S	method	limit/base	current	history1	history2

Color

16/20



Bottom



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) F: (575)576-9472

Report Id: MITSANJON [WUSCAR] 05026421 (Generated: 06/06/2024 02:21:10) Rev: 1

Certificate 12367

Contact/Location: SANTIAGO ROMERO - MITSANJON

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