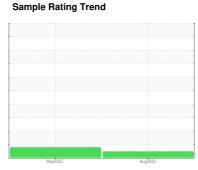


OIL ANALYSIS REPORT

Paper Machine Vacuum Pump #5 Gearbox Component Gearbox Gearbox

Fluid
MORII GFAR SHC 220 (35 GAL)





MOBIL MOBILGEAR SHC 220 (35 GAL)							
,				May2023	Aug2023		
DIAGNOSIS	SAMPLE INFORM	MATION	method	limit/base	current	history1	
Recommendation No corrective action is recommended at this time.	Sample Number		Client Info		WC0776545	WC0776637	
	Sample Date		Client Info		11 Aug 2023	26 May 2023	
Resample at the next service interval to monitor.	Machine Age	hrs	Client Info		0	0	
Wear	Oil Age	hrs	Client Info		0	0	
All component wear rates are normal.	Oil Changed		Client Info		N/A	N/A	
Contamination	Sample Status				NORMAL	ATTENTION	
There is no indication of any contamination in the oil. The amount and size of particulates present in	WEAR METALS		method	limit/base	current	history1	
the system are acceptable.	Iron	ppm	ASTM D5185m	>200	6	5	
Fluid Condition The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Chromium	ppm	ASTM D5185m	>15	0	<1	
	Nickel	ppm	ASTM D5185m	>15	0	0	
	Titanium	ppm	ASTM D5185m		<1	0	

Sample Date		Client Info		11 Aug 2023	26 May 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ATTENTION	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	5	
Chromium	ppm	ASTM D5185m	>15	0	<1	
Nickel	ppm	ASTM D5185m	>15	0	0	
Titanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	0	
Lead	ppm	ASTM D5185m	>100	0	0	
Copper	ppm	ASTM D5185m	>200	<1	<1	
Tin	ppm	ASTM D5185m	>25	0	0	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	6	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		<1	<1	
Magnesium	ppm	ASTM D5185m		3	<1	
Calcium	ppm	ASTM D5185m		4	4	
Phosphorus	ppm	ASTM D5185m		453	450	
Zinc	ppm	ASTM D5185m		0	2	
Sulfur	ppm	ASTM D5185m		3833	3970	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	16	19	
Sodium	ppm	ASTM D5185m		3	2	
Potassium	ppm	ASTM D5185m	>20	2	1	
Water	%	ASTM D6304	>0.2	800.0	0.007	
ppm Water	ppm	ASTM D6304	>2000	87.3	79.4	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>20000	13047	△ 20113	
Particles >6µm		ASTM D7647	>5000	1407	2058	
Particles >14μm		ASTM D7647	>640	32	28	
Particles >21µm		ASTM D7647	>160	7	5	
Particles >38µm		ASTM D7647	>40	2	1	
Dawtieles 71		ACTM D7C47	10		1	

	le le					
Sodium	ppm	ASTM D5185m		3	2	
Potassium	ppm	ASTM D5185m	>20	2	1	
Water	%	ASTM D6304	>0.2	0.008	0.007	
ppm Water	ppm	ASTM D6304	>2000	87.3	79.4	
FLUID CLEANLIN	IESS	method				history2
Particles >4µm		ASTM D7647	>20000	13047	<u>^</u> 20113	
Particles >6μm		ASTM D7647	>5000	1407	2058	
Particles >14μm		ASTM D7647	>640	32	28	
Particles >21µm		ASTM D7647	>160	7	5	
Particles >38µm		ASTM D7647	>40	2	1	
Particles >71µm		ASTM D7647	>10	1	1	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	21/18/12	<u>△</u> 22/18/12	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.90	0.90	



OIL ANALYSIS REPORT







Certificate L2367

Report Id: CASASH [WUSCAR] 05927252 (Generated: 08/18/2023 08:47:27) Rev: 1

Sample No. Lab Number **Unique Number** Test Package

: WC0776545 : 05927252 : 10607199 : PLANT

Received : 17 Aug 2023 Diagnosed Diagnostician

: 18 Aug 2023 : Doug Bogart 10026 OLD RIDGE ROAD

ASHLAND, VA US 23005

Contact: MARC-ANDRE HUBERT marc-andre hubert@cascades.com

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)

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