

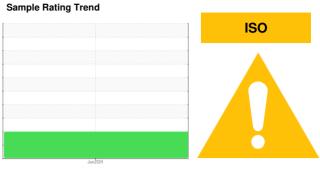
OIL ANALYSIS REPORT

Effluent Treatment Plant

Meadows Water Clarifier Top Gearbox 21-265-009.02

Top Gearbox

MOBIL SHC 636 (--- GAL)



DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible.

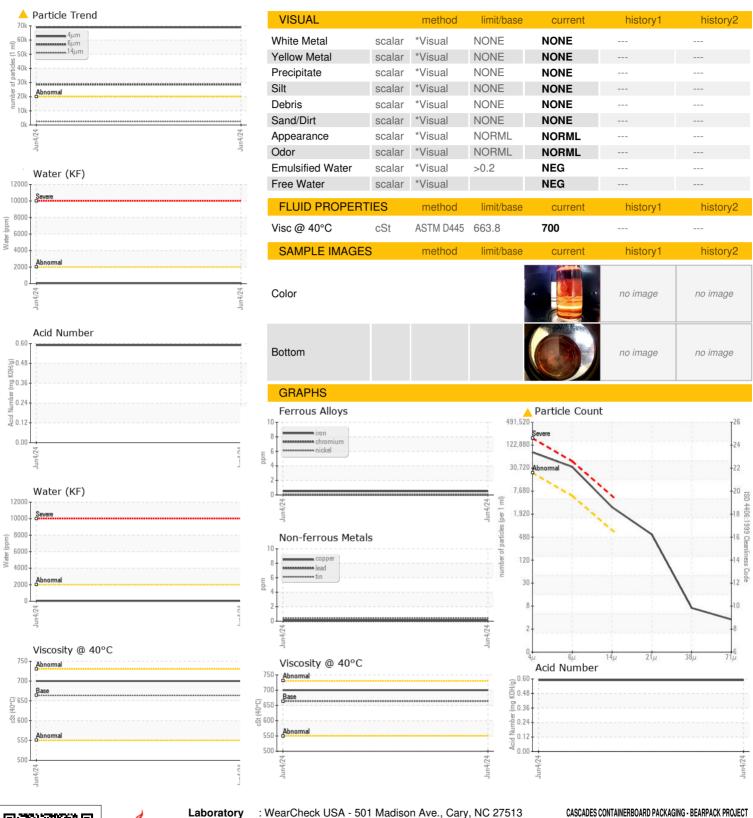
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776455		
Sample Date		Client Info		04 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<1		
Chromium	ppm	ASTM D5185m	>15	0		
Nickel	ppm	ASTM D5185m	>15	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>100	0		
Copper	ppm	ASTM D5185m	>200	<1		
Tin	ppm	ASTM D5185m	>25	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		0		
Calcium	ppm	ASTM D5185m		2		
Phosphorus	ppm	ASTM D5185m		490		
Zinc	ppm	ASTM D5185m		0		
Sulfur	nnm	ASTM D5185m				
	ppm	ASTIVI DSTOSIII		33		
CONTAMINANTS		method	limit/base	33 current	history1	
CONTAMINANTS			limit/base >50			
CONTAMINANTS Silicon	3	method		current	history1	history2
CONTAMINANTS Silicon Sodium	ppm	method ASTM D5185m		current 11	history1	history2
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m	>50 >20	current 11 0	history1	history2
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20	current 11 0 <1	history1	history2
CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304	>50 >20 >0.2	current 11 0 <1 0.003	history1	history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>50 >20 >0.2 >2000	current 11 0 <1 0.003 37	history1	history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>50 >20 >0.2 >2000 limit/base	current 11 0 <1 0.003 37 current	history1 history1	history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000	current 11 0 <1 0.003 37 current 68945	history1 history1	history2 history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >640	current 11 0 <1 0.003 37 current ▲ 68945 ▲ 28616	history1 history1	history2 history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >640	current 11 0 <1 0.003 37 current ▲ 68945 ▲ 28616 ▲ 2553	history1 history1	history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >14µm	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >640 >160 >40	current 11 0 <1 0.003 37 current ▲ 68945 ▲ 28616 ▲ 2553 ▲ 495	history1 history1	history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm %	method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >640 >160 >40	current 11 0 <1 0.003 37 current ▲ 68945 ▲ 28616 ▲ 2553 ▲ 495 6	history1 history1	history2
CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm % ppm	method ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 method ASTM D7647	>50 >20 >0.2 >2000 limit/base >20000 >5000 >640 >160 >40 >10	current 11 0 <1 0.003 37 current ▲ 68945 ▲ 28616 ▲ 2553 ▲ 495 6 3	history1 history1	history2



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No. Lab Number

: WC0776455 : 06200139 Unique Number : 11062262 Test Package : PLANT

Received **Tested**

: 06 Jun 2024 Diagnosed : 06 Jun 2024 - Wes Davis

: 05 Jun 2024

US 23005 Contact: MARC-ANDRE HUBERT marc-andre_hubert@cascades.com

10026 OLD RIDGE ROAD

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.

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

Report Id: CASASH [WUSCAR] 06200139 (Generated: 06/07/2024 08:23:54) Rev: 1

Submitted By: MARC-ANDRE HUBERT

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ASHLAND, VA