

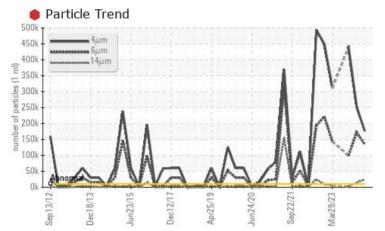
PROBLEM SUMMARY

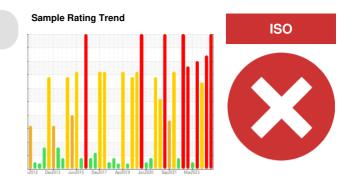
4 Calender Line Machine Id **38-0081 Feedmill** Component

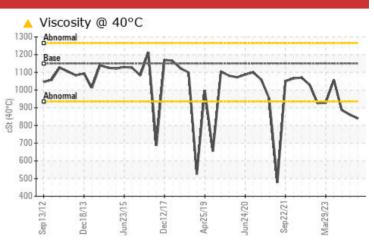
Bearing

DOW CHEMICAL UCON CALENDAR OIL 51 (50 GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

PROBLEMATIC TEST RESULTS							
Sample Status				SEVERE	SEVERE	SEVERE	
Particles >4µm		ASTM D7647	>10000	🛑 176590	e 252558	440677	
Particles >6µm		ASTM D7647	>2500	🛑 134581	🛑 172141	99170	
Particles >14µm		ASTM D7647	>160	e 24436	14820	1708	
Particles >21µm		ASTM D7647	>40	6 5422	1 580	<u> </u>	
Particles >38µm		ASTM D7647	>10	🛑 315	▲ 20	2	
Particles >71µm		ASTM D7647	>3	<u> </u>	4	0	
Oil Cleanliness		ISO 4406 (c)	>20/18/14	e 25/24/22	• 25/25/21	e 26/24/18	
Visc @ 40°C	cSt	ASTM D7279(m)	1150	<u> </u>	A 861	A 887	

Customer Id: CAN52CAM Sample No.: WC0744104 Lab Number: 02608315 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>

RECOMMENDED ACTIONS								
Action	Status	Date	Done By	Description				
Change Filter			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				
Resample			?	Resample in 30-45 days to monitor this situation.				
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.				
Check Dirt Access			?	We advise that you check all areas where contaminants can enter the system.				
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.				

HISTORICAL DIAGNOSIS

03 Oct 2023 Diag: Kevin Marson



We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



view report

06 Jul 2023 Diag: Kevin Marson



We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 1000 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





OIL ANALYSIS REPORT

Area **4 Calender Line** Machine Id **38-0081 Feedmill** Component

Bearing Fluid

DOW CHEMICAL UCON CALENDAR OIL 51 (50 GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.

Wear

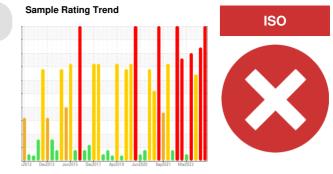
All component wear rates are normal.

Contamination

There is a high amount of particulates (2 to 100 microns in size) present in the oil.

Fluid Condition

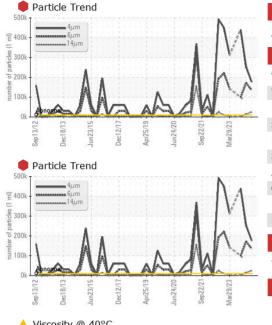
Viscosity of sample indicates oil is within ISO 680 range, advise investigate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

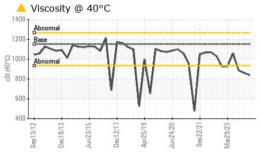


SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0744104	WC0808270	WC0808292
Sample Date		Client Info		03 Jan 2024	03 Oct 2023	06 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	0	0	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	0	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	0	0	<1
Copper	ppm	ASTM D5185(m)	>20	0	2	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	historyd	history2
ADDITIVES		method	IIIIII/Dase	current	history1	matoryz
Boron	ppm	ASTM D5185(m)	IIIII/Dase	0	0	<1
	ppm ppm		IIIII/Dase			
Boron		ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0	0 <1 0	<1 0 0
Boron Barium Molybdenum Manganese	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0	0 <1	<1 0 0 0
Boron Barium Molybdenum	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 <1	0 <1 0	<1 0 0 0 <1
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 <1 0	0 <1 0 <1 <1 <1	<1 0 0 0 <1 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 <1 0 0	0 <1 0 <1 <1 <1 0	<1 0 0 <1 <1 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 <1 0 0 <1	0 <1 0 <1 <1 <1 0 0	<1 0 0 <1 <1 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 <1 0 0 <1 65	0 <1 0 <1 <1 <1 0 0 0 453	<1 0 0 <1 <1 0 1 35
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 <1 0 0 <1	0 <1 0 <1 <1 <1 0 0	<1 0 0 <1 <1 0 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 0 <1 0 0 <1 65	0 <1 0 <1 <1 <1 0 0 0 453	<1 0 0 <1 <1 0 1 35
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 0 0 <1 0 0 <1 65 0	0 <1 0 <1 <1 <1 0 0 0 453 <1	<1 0 0 <1 <1 0 1 35 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 0 0 <1 0 0 <1 65 0 0	0 <1 0 <1 <1 <1 0 0 453 <1 history1	<1 0 0 <1 <1 <1 0 1 35 <1 <i>history2</i>
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	limit/base >15	0 0 0 <1 0 0 <1 65 0 0 <i>current</i>	0 <1 0 <1 <1 <1 0 0 453 <1 history1 1	<1 0 0 <1 <1 0 1 35 <1 history2 0
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	limit/base >15	0 0 0 <1 0 0 <1 65 0 0 Current 1 2	0 <1 0 <1 <1 <1 0 0 453 <1 history1 1 2	<1 0 0 <1 <1 <1 0 1 35 <1 history2 0 2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	limit/base >15 >20	0 0 0 <1 0 0 <1 65 0 0 current 1 2 2	0 <1 0 <1 <1 <1 0 0 453 <1 history1 1 2 3	<1 0 0 <1 <1 0 1 35 <1 history2 0 2 <1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	limit/base >15 >20 limit/base >10000	0 0 0 (0 <1 0 0 <1 65 0 0 current 1 2 2 2 current	0 <1 0 <1 <1 0 0 453 <1 history1 1 2 3 history1	<1 0 0 <1 <1 <1 0 1 35 <1 history2 0 2 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4μm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	limit/base >15 >20 limit/base >10000	0 0 0 10 10 10 0 165 0 0 0 0 0 0 0 1 2 2 2 0 0 0 0 0 0 0 0 0	0 <1 0 <1 <1 <1 0 0 453 <1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1 ×1	<1 0 0 3 4 1 3 5 4 1 3 5 4 1 0 2 4 1 0 2 4 1 0 2 4 1 0 2 4 1 0 2 4 1 0 2 4 1 0 1 3 5 4 1 0 1 1 3 5 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >6μm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m)	Imit/base >15 >20 Imit/base >20 2500 >160	0 0 0 10 11 0 0 2 1 65 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 <1 0 0 <1 <1 0 0 453 <1 history1 1 2 3 history1 • 252558 • 172141	<1 0 0 0 <1 <1 0 1 35 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647	Imit/base >15 >20 Imit/base >20 2500 >160	0 0 0 10 10 10 0 1 65 0 0 0 0 0 0 0 0 0 1 1 2 2 2 0 0 0 0 0 0	0 <1 0 0 <1 <1 0 0 453 <1 history1 1 2 3 history1 \$ 252558 \$ 172141 \$ 14820	<1 0 0 0 <1 <1 0 1 35 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 hist
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	Iimit/base >15 >20 Iimit/base >10000 >2500 >160 >40 >10	0 0 0 (0 (1) 0 (1) 65 0 (1) 65 0 (1) 65 (1) (1) (1) 2 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 <1 0 (-1 (-1 (-1 (-1 (-1 (-1) (-1) (-1 (-1	<1 0 0 0 <1 <1 0 1 35 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 0 2 <1 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	Iimit/base >15 >20 Iimit/base >10000 >2500 >160 >40 >10	0 0 0 (0 (1) 0 (1) 65 0 (1) 65 0 (1) 65 0 (1) 65 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 <1 0 (1 (1 (1 2 3 (1 2 2 3 (1 2 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5	<1 0 0 0 1 -1 0 1 35 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 2 -1 history2 0 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 history2 hi



OIL ANALYSIS REPORT





Acid Number

Dec18/13

5.0

KOH/g)

(Buu)

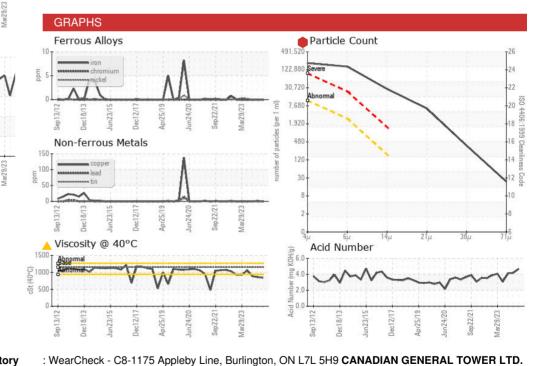
Number 0.2

Sep13/12

Acid 1

FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		4.68	4.19	4.12
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	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	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*	>2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	1150	<mark> </mark> 839	▲ 861	▲ 887
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						

Bottom



Laboratory CALA Sample No. : WC0744104 Recieved : 11 Jan 2024 52 MIDDLETON STREET, P.O. BOX 160 Lab Number : 02608315 Diagnosed CAMBRIDGE, ON : 15 Jan 2024 ISO 17025:2017 Accredited Laboratory : 5709401 Diagnostician : Kevin Marson CA N1S 2R4 Unique Number Test Package : IND 2 (Additional Tests: PrtCount, TAN Man) Contact: Bob Abell To discuss this sample report, contact Customer Service at 1-800-268-2131. bob.abell@cgtower.com Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. T: (519)623-1630 Validity of results and interpretation are based on the sample and information as supplied. F: (519)623-7018

Jun24/20

Apr25/19

Dec12/17

Sep22/21