

PROBLEM SUMMARY

MA OLUMANA DV

Area

6 Calender Line 39-0251 CGT mill

Bearing

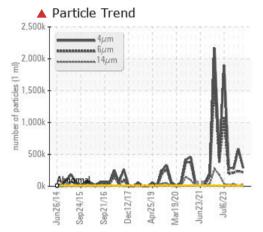
Eluid

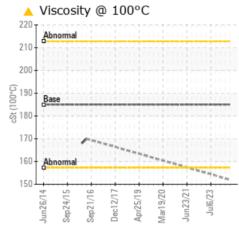
DOW CHEMICAL UCON CALENDAR OIL 51 (60 GAL)

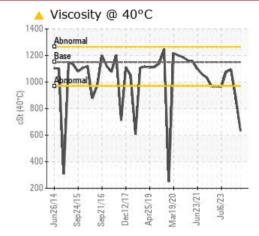




COMPONENT CONDITION SUMMARY







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	287544	▲ 585236	276186	
Particles >6µm		ASTM D7647	>2500	1 218843	2 37936	1 213679	
Particles >14µm		ASTM D7647	>160	△ 31674	1 7062	36511	
Particles >21µm		ASTM D7647	>40	4644	4 997	5903	
Particles >38µm		ASTM D7647	>10	<u> 77</u>	<u></u> ▲ 51	1 64	
Oil Cleanliness		ISO 4406 (c)	>20/18/14	25/25/22	2 6/25/20	2 5/25/22	
Visc @ 40°C	cSt	ASTM D7279(m)	1150	△ 632	<u></u> 886	1095	
Visc @ 100°C	cSt	ASTM D7279(m)	185	152			

Customer Id: CAN52CAM Sample No.: WC0926947 Lab Number: 02644908 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 gloria.gonzalez@wearcheck.com

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

20 Mar 2024 Diag: Kevin Marson

X

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. Confirm the source of the lubricant being utilized for top-up/fill. 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 water content is negligible. A decrease in the AN level is noted. Viscosity of sample indicates oil is within ISO 1000 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported.



03 Jan 2024 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 water content is negligible. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



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 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

Sample Rating Trend





6 Calender Line

39-0251 CGT mill

Bearing

DOW CHEMICAL UCON CALENDAR OIL 51 (60 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 Number	1 (60 GAL) *** *** *** *** *** *** *** *** *** *						
Sample Date Client Info 06 Jun 2024 20 Mar 2024 03 Jan 2024	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Date Client Info 06 Jun 2024 20 Mar 2024 03 Jan 2024	Sample Number		Client Info		WC0926947	WC0892245	WC0837287
Oil Age hrs Client Info N/A N/A N/A N/A Oil Changed Client Info N/A N/A N/A N/A Sample Status Client Info N/A N/A N/A N/A CONTAMINATION method limit/base current history1 history2 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 Aluminum ppm ASTM D5185(m) >20			Client Info		06 Jun 2024	20 Mar 2024	03 Jan 2024
Oil Changed Sample Status Client Info N/A N/A N/A N/A N/A Severe NEG	Machine Age	hrs	Client Info		0	0	0
Sample Status SEVERE SEVERE SEVERE CONTAMINATION 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 Nickel ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) >20 0 0 0 Aluminum ppm ASTM D5185(m) >20 0 0 0 Lead ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 2 0 Tin ppm ASTM D5185(m) >20 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium <th>Oil Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Oil Age	hrs	Client Info		0	0	0
CONTAMINATION method limit/base current history1 history2 Water WC Method >2 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTMD5185(m) >20 0 0 0 Chromium ppm ASTMD5185(m) >20 0 0 0 Nickel ppm ASTMD5185(m) >20 0 0 0 Nickel ppm ASTMD5185(m) >20 0 0 0 Aluminum ppm ASTMD5185(m) 20 0 0 0 Aluminum ppm ASTMD5185(m) 20 0 0 0 Lead ppm ASTMD5185(m) 20 0 0 0 Copper ppm ASTMD5185(m) 20 0 0 0 Tin ppm ASTMD5185(m) 0 0 0 0	Oil Changed		Client Info		N/A	N/A	N/A
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 <1	Sample Status				SEVERE	SEVERE	SEVERE
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) 0 0 0 0 Silver ppm ASTM D5185(m) 0 0 0 0 Aluminum ppm ASTM D5185(m) >20 0 0 <1 Lead ppm ASTM D5185(m) >20 0 0 <1 Lead ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 0 0 Tin ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanacitum ppm ASTM D5185(m) 0 0 0 <th>CONTAMINATIO</th> <th>N</th> <th>method</th> <th>limit/base</th> <th>current</th> <th>history1</th> <th>history2</th>	CONTAMINATIO	N	method	limit/base	current	history1	history2
Iron	Water		WC Method	>2	NEG	NEG	NEG
Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) >20 <1 0 <1 Titanium ppm ASTM D5185(m) 0 0 0 0 Silver ppm ASTM D5185(m) >20 0 0 0 Aluminum ppm ASTM D5185(m) >20 0 0 0 Lead ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 <t< td=""><td>WEAR METALS</td><td></td><td>method</td><td>limit/base</td><th>current</th><td>history1</td><td>history2</td></t<>	WEAR METALS		method	limit/base	current	history1	history2
Nickel ppm ASTM D5185(m) >20	Iron	ppm	ASTM D5185(m)	>20	0	0	0
Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) 0 0 0 Aluminum ppm ASTM D5185(m) >20 0 0 -1 Lead ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 0 <	Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Silver ppm ASTM D5185(m) 0 0 0 Aluminum ppm ASTM D5185(m) >20 0 0 <1 Lead ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 2 0 Tin ppm ASTM D5185(m) 20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 0	Nickel	ppm	ASTM D5185(m)	>20	<1	0	<1
Aluminum ppm ASTM D5185(m) >20 0 0 <1 Lead ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 2 0 Tin ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Magnaese ppm ASTM D5185(m) 0 0 0 0	Titanium	ppm	ASTM D5185(m)		0	0	0
Lead ppm ASTM D5185(m) >20 0 0 0 Copper ppm ASTM D5185(m) >20 0 2 0 Tin ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 0 0 Vanadium ppm ASTM D5185(m) 0 0 0 0 Beryllium ppm ASTM D5185(m) 0 0 0 0 Cadmium ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 0 Barium ppm ASTM D5185(m) 0 0 0	Silver	ppm	ASTM D5185(m)		0	0	0
Copper ppm ASTM D5185(m) >20 0 2 0 Tin ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 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 Cadmium ppm ASTM D5185(m) 0 0 0 Boron ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) <1	Aluminum	ppm	ASTM D5185(m)	>20	0	0	<1
Tin ppm ASTM D5185(m) >20 0 0 0 Antimony ppm ASTM D5185(m) 0 0 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 history1 history2 Boron ppm ASTM D5185(m) 0 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) <0 0 0 0 Calcium ppm ASTM D5185(m) <1 0 <1 0 Phosphorus ppm ASTM D5185(m) <1 <1 <1 <1 <1 <1	Lead	ppm	ASTM D5185(m)	>20	0	0	0
Antimony ppm ASTM D5185(m) 0 0 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 history1 history2 Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) <1 0 <1 0 Calcium ppm ASTM D5185(m) 1 56 0 0 Zinc ppm ASTM D5185(m) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Copper	ppm	ASTM D5185(m)	>20	0	2	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 history1 history2 Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1 0 Calcium ppm ASTM D5185(m) 1 56 0 Phosphorus ppm ASTM D5185(m) <1 <1 <1 <1 Sulfur ppm ASTM D5185(m) <1 <1 <1 <1 <1 CONTAMINANTS method limit/base curr	Tin	ppm	ASTM D5185(m)	>20	0	0	0
Beryllium	Antimony	ppm	ASTM D5185(m)		0	0	0
Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 0 <1	Vanadium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) <1	Beryllium	ppm	ASTM D5185(m)		0	0	0
Boron ppm ASTM D5185(m) 0 0 0 Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) <1 0 <1 0 Calcium ppm ASTM D5185(m) 0 <1 0 <1 0 Phosphorus ppm ASTM D5185(m) 1 56 0 0 Zinc ppm ASTM D5185(m) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Cadmium	ppm	ASTM D5185(m)		0	0	0
Barium ppm ASTM D5185(m) 0 0 0 Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) <1 0 <1 0 Calcium ppm ASTM D5185(m) 0 <1 0 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185(m) 0 0 0 Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) <1 0 <1 Calcium ppm ASTM D5185(m) 0 <1 0 Phosphorus ppm ASTM D5185(m) 1 56 0 Zinc ppm ASTM D5185(m) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Boron	ppm	ASTM D5185(m)		0	0	0
Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) <1 0 <1 Calcium ppm ASTM D5185(m) 0 <1 0 Phosphorus ppm ASTM D5185(m) 1 56 0 Zinc ppm ASTM D5185(m) <1 <1 <1 <1 Sulfur ppm ASTM D5185(m) <1 <2 0 Lithium ppm ASTM D5185(m) <1 <1 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) >20 0 <1 3 4 2 Potassium ppm ASTM D5185(m) >20 0 <1 3 4 2 Particles >4µm ASTM D7647 >10000 <th< td=""><td>Barium</td><td>ppm</td><td>ASTM D5185(m)</td><td></td><th>0</th><td>0</td><td>0</td></th<>	Barium	ppm	ASTM D5185(m)		0	0	0
Magnesium ppm ASTM D5185(m) <1 0 <1 Calcium ppm ASTM D5185(m) 0 <1 0 Phosphorus ppm ASTM D5185(m) 1 56 0 Zinc ppm ASTM D5185(m) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <th< td=""><td>Molybdenum</td><td>ppm</td><td>ASTM D5185(m)</td><td></td><th>0</th><td>0</td><td>0</td></th<>	Molybdenum	ppm	ASTM D5185(m)		0	0	0
Calcium ppm ASTM D5185(m) 0 <1 0 Phosphorus ppm ASTM D5185(m) 1 56 0 Zinc ppm ASTM D5185(m) <1	Manganese	ppm	ASTM D5185(m)		0	0	0
Phosphorus ppm ASTM D5185(m) 1 56 0 Zinc ppm ASTM D5185(m) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	Magnesium	ppm	ASTM D5185(m)		<1	0	<1
Zinc ppm ASTM D5185(m) <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <2 0 <1 <1 <1 <0 <1 <1 <0 <1 <1 <0 <1 <1 <0 <1 <1 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 <0 </td <td>Calcium</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td></td> <th>0</th> <td><1</td> <td>0</td>	Calcium	ppm	ASTM D5185(m)		0	<1	0
Sulfur ppm ASTM D5185(m) <1 2 0 Lithium ppm ASTM D5185(m) <1 2 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) 3 4 2 Potassium ppm ASTM D5185(m) >20 0 <1	Phosphorus	ppm	ASTM D5185(m)		1	5 6	0
Lithium ppm ASTM D5185(m) <1 <1 0 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) 3 4 2 Potassium ppm ASTM D5185(m) >20 0 <1	Zinc	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) 3 4 2 Potassium ppm ASTM D5185(m) >20 0 <1 3 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 Δ 287544 Δ 585236 Δ 276186 Particles >6μm ASTM D7647 >2500 Δ 218843 Δ 237936 Δ 213679	Sulfur	ppm	ASTM D5185(m)		<1	_ 2	0
Silicon ppm ASTM D5185(m) >15 0 0 0 Sodium ppm ASTM D5185(m) 3 4 2 Potassium ppm ASTM D5185(m) >20 0 <1	Lithium	ppm	ASTM D5185(m)		<1	<1	0
Sodium ppm ASTM D5185(m) 3 4 2 Potassium ppm ASTM D5185(m) >20 0 <1	CONTAMINANTS	S	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185(m) >20 0 <1	Silicon	ppm	ASTM D5185(m)	>15	0	0	0
FLUID CLEANLINESS method limit/base current history1 history2 Particles >4μm ASTM D7647 >10000 ▲ 287544 ▲ 585236 ▲ 276186 Particles >6μm ASTM D7647 >2500 ▲ 218843 ▲ 237936 ▲ 213679	Sodium	ppm	ASTM D5185(m)		3	4	2
Particles >4μm ASTM D7647 >10000 ▲ 287544 ▲ 585236 ▲ 276186 Particles >6μm ASTM D7647 >2500 ▲ 218843 ▲ 237936 ▲ 213679	Potassium	ppm	ASTM D5185(m)	>20	0	<1	3
Particles >6μm ASTM D7647 >2500 ▲ 218843 ▲ 237936 ▲ 213679	FLUID CLEANLII	NESS	method	limit/base	current	history1	history2
·	Particles >4µm		ASTM D7647	>10000	287544	▲ 585236	276186
Particles >14μm ASTM D7647 >160 ▲ 31674 ▲ 7062 ▲ 36511	Particles >6µm		ASTM D7647	>2500	1 218843	▲ 237936	1 213679
	Particles >14μm		ASTM D7647	>160	1 31674	▲ 7062	▲ 36511

ASTM D7647 >40

ASTM D7647 >10

ASTM D7647 >3

4644

A 77

ISO 4406 (c) >20/18/14 **25/25/22**

Particles >21µm

Particles >38µm

Particles >71µm

Oil Cleanliness

4 997

<u></u> 51

1 26/25/20

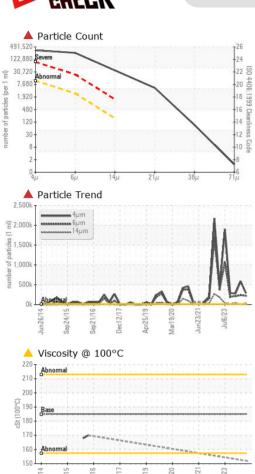
\$5903

164

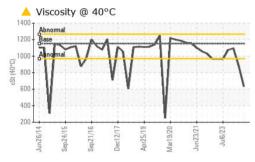
25/25/22

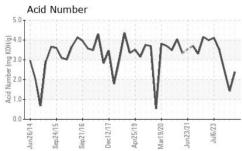


OIL ANALYSIS REPORT



FLUID DEGRADATION		method	limit/base current		history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		2.39	1.43	2.47
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	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	HAZY	MILKY
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	△ 632	▲ 886	1095
Visc @ 100°C	cSt	ASTM D7279(m)	185	<u> </u>		
Viscosity Index (VI)	Scale	ASTM D2270*	287	340		
SAMPLE IMAGES	SAMPLE IMAGES		limit/base	current	history1	history2
Color						
Bottom				TOTAL SOF		







CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02644908 Unique Number : 5802447

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0926947

Received

: 02 Jul 2024 : 04 Jul 2024 : 04 Jul 2024 - Kevin Marson

CANADIAN GENERAL TOWER LTD. 52 MIDDLETON STREET, P.O. BOX 160 CAMBRIDGE, ON CA N1S 2R4

Test Package : IND 2 (Additional Tests: KV100, TAN Man, VI) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Tested

Diagnosed

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Contact: Bob Abell

Validity of results and interpretation are based on the sample and information as supplied. Report Id: CAN52CAM [WCAMIS] 02644908 (Generated: 07/04/2024 11:22:43) Rev: 1

Contact/Location: Bob Abell - CAN52CAM