

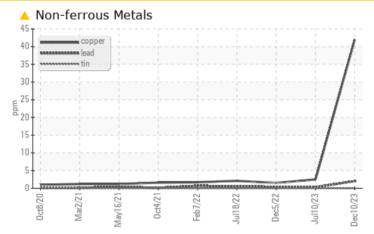
PROBLEM SUMMARY

Lockring Roughing Machine Id Index G420 Turn-Mill Center #1102 (NGOM-A2-CFF) -cc 4980 Component

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

PROBLEMATIC TEST RESULTS Sample Status ABNORMAL NORMAL NORMAL Copper ppm ASTM D5185(m) >20 ▲ 42 2 2

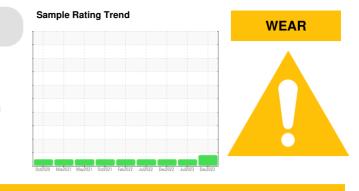
Customer Id: HUSBOLED Sample No.: WC0887639 Lab Number: 02602293 Test Package: IND 2



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 A	CTIONS				
Action	Status	Date	Done By	Description	
Change Fluid			?	We recommend that you already been done.	
Resample			?	We recommend an early	
Information Required			?	Please specify the brand, typ provide information regarding	

We recommend that you drain the oil from the component if this has not already been done.

We recommend an early resample to monitor this condition.

Please specify the brand, type, and viscosity of the oil on your next sample. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

HISTORICAL DIAGNOSIS



10 Jul 2023 Diag: Wes Davis

Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



NORMAL

05 Dec 2022 Diag: Wes Davis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 32. Please confirm.

NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





18 Jul 2022 Diag: Wes Davis



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



OIL ANALYSIS REPORT

Area Lockring Roughing Machine Id Index G420 Turn-Mill Center #1102 (NGOM-A2-CFF) -cc 4980 Component

Hydraulic System

AW HYDRAULIC OIL ISO 32 (--- LTR)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

🔺 Wear

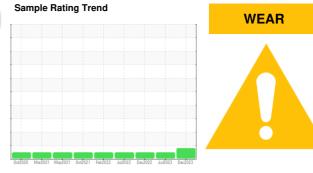
Copper ppm levels are abnormal. A sharp increase in the copper level is noted. Oil cooler core leaching or motor piston wear is indicated.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Fluid Condition

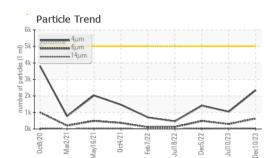
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

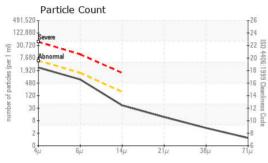


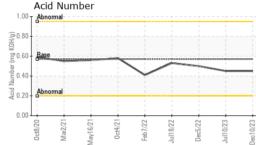
Sample Number Client Info WC0887639 WC087829 WC078329 Sample Date Client Info 10 Dec 2023 10 Jul 2023 05 Dec 2022 Machine Age days Client Info 0 0 0 0 Oil Age days Client Info N/A N/A N/A N/A Sample Status Client Info N/A MA N/A N/A N/A CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 3 2 2 Chromium ppm ASTM D5185(m) >20 41 <1	SAMPLE INFORM		method	limit/base	current	history1	history2	
Sample Date Client Info 10 Dec 2023 10 Jul 2023 05 Dec 2022 Machine Age days Client Info 0 0 0 Oil Age days Client Info 0 0 0 Oil Changed Client Info N/A N/A N/A N/A Sample Status Image Client Info N/A N/A N/A N/A CONTAMINATION method Imit/base current history1 history2 War WC Method >0.05 NEG NEG NEG WEAR METALS method Imit/base current history1 history2 Iron ppm ASTM 05156m >20 4 1 -1 1 Mickel ppm ASTM 05156m >20 4 2 2 2 Iron ppm ASTM 05156m >20 0 0 0 0 Auminum ppm ASTM 05156m 20 0 0 <				minubase				
Machine Age days Client Info 0 0 0 Oil Age days Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A Sample Status Client Info N/A N/A N/A CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM051600 >20 3 2 2 Chromium ppm ASTM051600 >20 1 -1 -1 Nickel ppm ASTM051600 >20 2 -1 -1 -1 Copper ppm ASTM051600 >20 2 -1 -1 -1 Autimium ppm ASTM051600 >20 0 0 0 0 Vanadium ppm ASTM051600 >20 0 0 0 0 <td></td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td>								
Oil Age days Client Into 0 0 0 Oil Changed Client Info N/A N/A N/A N/A N/A Sample Status Image Client Info N/A ABNORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG Chromium ppm ASTM 05180m >20 3 2 2 Chromium ppm ASTM 05180m >20 -1 -1 -1 Silver ppm ASTM 05180m >20 0 -1 -1 Capper ppm ASTM 05180m >20 0 0 0 Vanadium ppm ASTM 05180m >20 42 2 2 Tin ppm ASTM 05180m >20 0 0 0 Adminum ppm ASTM 05180m 20 0 0								
Oli Changed Client Info N/A N/A N/A N/A N/A Sample Status method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM 05/65(m) >20 3 2 2 Chromium ppm ASTM 05/65(m) >20 4 1 -1 -1 Nickel ppm ASTM 05/65(m) >20 2 -1 -1 0 Aluminum ppm ASTM 05/65(m) >20 2 -1 -1 -1 Copper ppm ASTM 05/65(m) >20 0 0 0 0 Astm 05/65(m) >20 Q 0 0 0 0 0 Vanadum ppm ASTM 05/65(m) >20 Q 0 0 0 A	•				-			
Sample Status Initial initial initial ABNORMAL NORMAL NORMAL NORMAL CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM0585(m) >20 3 2 2 Iron ppm ASTM0585(m) >20 0 0 0 Nickel ppm ASTM0585(m) >20 0 <1 0 Itanium ppm ASTM0585(m) >20 0 <1 0 Lead ppm ASTM0585(m) >20 0 0 0 Vanadium ppm ASTM0585(m) >20 0 0 0 Vanadium ppm ASTM0585(m) 0 0 0 0 Vanadium ppm ASTM0585(m) 5 4 2 2	•	days					÷	
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.05 NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 3 2 2 Chromium ppm ASTM D5185(m) >20 1 <1	-		Client Info			,		
Water WC Method >0.0.5 NEG NEG NEG Wear METALS method limit/base current history1 history2 Iron ppm ASTM 0518(m) >20 3 2 2 Chromium ppm ASTM 0518(m) >20 1 <1	Sample Status				ABNORMAL	NORMAL	NORMAL	
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185(m) >20 3 2 2 Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) >20 <1	CONTAMINATION	N	method	limit/base	current	history1	history2	
Iron ppm ASTM D5185(m) >20 3 2 2 Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) >20 <1	Water		WC Method	>0.05	NEG	NEG	NEG	
Chromium ppm ASTM D5185(m) >20 0 0 0 Nickel ppm ASTM D5185(m) >20 <1	WEAR METALS		method	limit/base	current	history1	history2	
Nickel ppm ASTM D5185(m) >20 <1 <1 <1 Titanium ppm ASTM D5185(m) 0 0 0 Silver ppm ASTM D5185(m) >20 0 <1	Iron	ppm	ASTM D5185(m)	>20	3	2	2	
Titanium ppm ASTM 05/85(m) 0 0 0 Silver ppm ASTM 05/85(m) <1	Chromium	ppm	ASTM D5185(m)	>20	0	0	0	
Silver ppm ASTM D5185(m) <1 <1 0 Aluminum ppm ASTM D5185(m) >20 0 <1	Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1	
Aluminum ppm ASTM D5185(m) >20 0 <1 0 Lead ppm ASTM D5185(m) >20 2 <1	Titanium	ppm	ASTM D5185(m)		0	0	0	
Lead ppm ASTM D5185(m) >20 2 <1	Silver	ppm	ASTM D5185(m)		<1	<1	0	
Lead ppm ASTM D5185(m) >20 2 <1	Aluminum	ppm	ASTM D5185(m)	>20	0	<1	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 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 4 2 2 Barium ppm ASTM D5185(m) 5 0 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Marganese ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 26	Lead		ASTM D5185(m)	>20	2	<1	<1	
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 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 4 2 2 Barium ppm ASTM D5185(m) 5 0 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Marganese ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 370 2650	Copper	ppm	ASTM D5185(m)	>20	<u> </u>	2	2	
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 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 4 2 2 Barium ppm ASTM D5185(m) 5 0 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Magnesium ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 370 387 4107 141 <1	Tin		ASTM D5185(m)	>20	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) 5 4 2 2 Barium ppm ASTM D5185(m) 5 0 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Marganese ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818	Antimony		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) 5 4 2 2 Barium ppm ASTM D5185(m) 5 1 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Magnesium ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 200 2650 2746 2818 Lithium ppm ASTM D5185(m) 215 <1 <1 <1 <1 Sodium ppm ASTM D5185(m) >20 Q	Vanadium				0	0	0	
Cadmium ppm ASTM D5185(m) 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185(m) 5 4 2 2 Barium ppm ASTM D5185(m) 5 1 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 0 Magnesium ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 250 2650 2746 2818 Sodium ppm ASTM D5185(m) >15<< <th><1</th> <1 <1 <1 Potassium ppm ASTM D5185(m)	<1	Beryllium		. /		0	0	0
Boron ppm ASTM D5185(m) 5 4 2 2 Barium ppm ASTM D5185(m) 5 1 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Manganese ppm ASTM D5185(m) 20 0 0 0 Magnesium ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 26550 2746 2818 Lithium ppm ASTM D5185(m) >15 <1	Cadmium		ASTM D5185(m)		0	0	0	
Barium ppm ASTM D5185(m) 5 1 0 0 Molybdenum ppm ASTM D5185(m) 5 0 0 0 Manganese ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) >1 <1	ADDITIVES		method	limit/base	current	history1	history2	
Molybdenum ppm ASTM D5185(m) 5 0 0 0 Manganese ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Silicon ppm ASTM D5185(m) 250 2650 2746 2818 Sodium ppm ASTM D5185(m) >15 <1 <1 <1 Potassium ppm ASTM D5185(m) >20 0 <1 <1 FLUID CLEANLINESS method	Boron	ppm	ASTM D5185(m)	5	4	2	2	
Manganese ppm ASTM D5185(m) 0 0 0 Magnesium ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Silicon ppm ASTM D5185(m) 250 2650 2746 2818 Silicon ppm ASTM D5185(m) <1	Barium	ppm	ASTM D5185(m)	5	1	0	0	
Manganese ppm ASTM D5185(m) 0 0 0 0 Magnesium ppm ASTM D5185(m) 25 28 32 32 Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Silicon ppm ASTM D5185(m) 250 2650 2746 2818 Silicon ppm ASTM D5185(m) <1	Molybdenum	ppm	ASTM D5185(m)	5	0	0	0	
Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Silicon ppm ASTM D5185(m) 2500 2650 2746 2818 Silicon ppm ASTM D5185(m) 2500 2650 2746 2818 Sodium ppm ASTM D5185(m) <1	Manganese	ppm	ASTM D5185(m)		0	0	0	
Calcium ppm ASTM D5185(m) 200 170 190 202 Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Silicon ppm ASTM D5185(m) 2500 2650 2746 2818 Silicon ppm ASTM D5185(m) 250 2650 2746 2817 Sodium ppm ASTM D5185(m) <1	Magnesium	ppm	ASTM D5185(m)	25	28	32	32	
Phosphorus ppm ASTM D5185(m) 300 321 357 360 Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 current history1 history2 Silicon ppm ASTM D5185(m) >15 <1	Calcium		ASTM D5185(m)	200	170	190	202	
Zinc ppm ASTM D5185(m) 370 387 407 395 Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) <1	Phosphorus				321	357	360	
Sulfur ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) 2500 2650 2746 2818 Lithium ppm ASTM D5185(m) <1	Zinc		. /					
Lithium ppm ASTM D5185(m) <1 <1 <1 <1 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >15 <1 <1 0 Sodium ppm ASTM D5185(m) >15 <1 <1 0 Sodium ppm ASTM D5185(m) >15 <1 <1 0 Sodium ppm ASTM D5185(m) >20 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	Sulfur							
Silicon ppm ASTM D5185(m) >15 <1 <1 0 Sodium ppm ASTM D5185(m) >15 <1	Lithium		. /			<1		
Silicon ppm ASTM D5185(m) >15 <1 <1 0 Sodium ppm ASTM D5185(m) >15 <1	CONTAMINANTS		method	limit/base	current	history1	history2	
Sodium 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 <1 <1 <1 <1 <1 <1 <1 <1 <td>Silicon</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td>>15</td> <th><1</th> <td><1</td> <td>0</td>	Silicon	ppm	ASTM D5185(m)	>15	<1	<1	0	
Potassium ppm ASTM D5185(m) >20 0 <1 <1 FLUID CLEANLINESS method limit/base current history1 history2 Particles >4µm ASTM D7647 >5000 2345 1049 1414 Particles >6µm ASTM D7647 >1300 633 298 486 Particles >14µm ASTM D7647 >160 36 21 47 Particles >14µm ASTM D7647 >40 10 5 11 Particles >21µm ASTM D7647 >10 3 0 1 Particles >38µm ASTM D7647 >3 1 0 1 Particles >71µm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13	Sodium					<1	<1	
Particles >4μm ASTM D7647 >5000 2345 1049 1414 Particles >6μm ASTM D7647 >1300 633 298 486 Particles >14μm ASTM D7647 >160 36 21 47 Particles >14μm ASTM D7647 >40 10 5 11 Particles >21μm ASTM D7647 >10 3 0 1 Particles >38μm ASTM D7647 >3 1 0 1 Particles >71μm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13	Potassium			>20				
Particles >6μm ASTM D7647 >1300 633 298 486 Particles >14μm ASTM D7647 >160 36 21 47 Particles >21μm ASTM D7647 >40 10 5 11 Particles >21μm ASTM D7647 >40 10 5 11 Particles >38μm ASTM D7647 >10 3 0 1 Particles >71μm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13	FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2	
Particles >14μm ASTM D7647 >160 36 21 47 Particles >21μm ASTM D7647 >40 10 5 11 Particles >38μm ASTM D7647 >10 3 0 1 Particles >38μm ASTM D7647 >10 3 0 1 Particles >71μm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13	Particles >4µm		ASTM D7647	>5000	2345	1049	1414	
Particles >14μm ASTM D7647 >160 36 21 47 Particles >21μm ASTM D7647 >40 10 5 11 Particles >38μm ASTM D7647 >10 3 0 1 Particles >71μm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13	Particles >6µm		ASTM D7647	>1300	633	298	486	
Particles >21μm ASTM D7647 >40 10 5 11 Particles >38μm ASTM D7647 >10 3 0 1 Particles >71μm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13							47	
Particles >38μm ASTM D7647 >10 3 0 1 Particles >71μm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13							11	
Particles >71μm ASTM D7647 >3 1 0 1 Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13								
Oil Cleanliness ISO 4406 (c) >19/17/14 18/16/12 17/15/12 18/16/13	•					0	1	
							10/10/10	
	Oil Cleanliness		ISO 4406 (c)	>19/1//14	18/16/12	1//15/12	18/16/13	

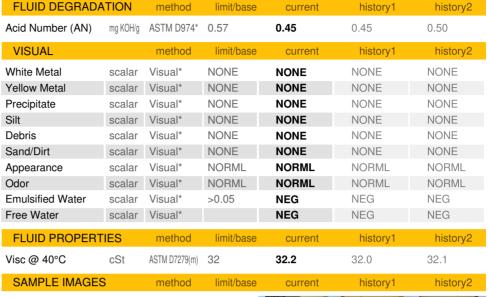


OIL ANALYSIS REPORT









Color

Bottom



