

OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id CR-3305 Component 2 Swing Drive Fluid

GEAR OIL ISO 220 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

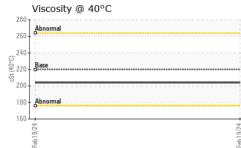
Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0833418		
Sample Date		Client Info		19 Feb 2024		
Machine Age	hrs	Client Info		10157		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>400	4		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	<1		
Lead	ppm	ASTM D5185m	>50	0		
Copper	ppm	ASTM D5185m	>200	0		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	0		
Barium	ppm	ASTM D5185m	15	0		
Molybdenum	ppm	ASTM D5185m	15	0		
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Manganese	ppm	ASTM D5185m		<1		
,		ASTM D5185m ASTM D5185m	50	<1 3		
Manganese	ppm		50 50			
Manganese Magnesium	ppm ppm	ASTM D5185m		3		
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185m ASTM D5185m	50	3 9		
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	50 350	3 9 301		
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 350 100	3 9 301 1		
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	50 350 100 12500	3 9 301 1 3298	 	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	50 350 100 12500 limit/base	3 9 301 1 3298 current	 	
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	50 350 100 12500 limit/base >50	3 9 301 1 3298 current 1	 	
Maganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 350 100 12500 limit/base >50	3 9 301 1 3298 current 1 0	 history1 	 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 350 100 12500 limit/base >50 >20	3 9 301 1 3298 current 1 0 0	 history1 	 history2
Maganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 350 100 12500 limit/base >50 >20 limit/base	3 9 301 1 3298 current 1 0 0 0	 history1 history1	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XBTM D5185m	50 350 100 12500 limit/base >50 >20 limit/base NONE	3 9 301 1 3298 current 1 0 0 0 current NONE	 history1 history1 	 history2 history2
Maganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	50 350 100 12500 imit/base >50 >20 imit/base NONE NONE	3 9 301 1 3298 current 1 0 0 0 current NONE NONE	 history1 history1 history1	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	50 350 100 12500 imit/base >50 >20 imit/base NONE NONE NONE NONE	3 9 301 1 3298 current 1 0 0 0 current NONE NONE NONE NONE	 history1 history1 history1	 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	50 350 100 12500 Imit/base >50 >20 Imit/base NONE NONE NONE NONE	3 9 301 1 3298 current 1 0 0 0 current NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m XSTM D5185m *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 Imit/base >50 >20 Imit/base NONE NONE NONE NONE NONE NONE	3 9 301 1 3298 current 1 0 0 0 current NONE NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 Imit/base >50 >20 Imit/base NONE NONE NONE NONE NONE NONE NONE NON	3 9 301 1 3298 current 1 0 0 0 current NONE NONE NONE NONE NONE NONE	 history1 history1 	 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 bimit/base >50 >20 bimit/base >20 bimit/base NONE NONE NONE NONE NONE NONE NONE NON	3 9 301 1 3298 current 1 0 0 0 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 	 history2 history2 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm ppm ppm ppm ppm ppm ppm scalar scalar scalar scalar scalar scalar	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	50 350 100 12500 imit/base >50 >20 imit/base >20 imit/base NONE NONE NONE NONE NONE NONE NONE NON	3 9 301 1 3298 current 1 0 0 0 current NONE NONE NONE NONE NONE NONE NONE NON	 history1 history1 -	 history2 history2



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FL	JID PROPE	RTIES	method	limit/base	current	history1	history2
Visc	@ 40°C	cSt	ASTM D445	220	204		
SA	MPLE IMAG	ES	method	limit/base	current	history1	history2
Colo	r				no image	no image	no image
Botto	m				no image	no image	no image
_							
¹⁰	rous Alloys						
9 - 8	chromium nickel						
7							
E 5-							
4							
2							
Feb19/24				Feb 19/24			
Noi 10 T	n-ferrous Met	tals					
9-	copper						
8	••••••••••••••••••••••••••••••••••••••						
6 Ed. 5							
4							
3							
1+							
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070	ormal			1			
250							
240							
() 230 - 0+) 220 - Base 33	2						
3 210 200 -							
190 -							
180 Abn 170	ormal						
Feb 19/24				Feb 19/24			
r atory : WearC	: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0833418 Received : 26 Feb 2024					BUCKNER - WILLIS 18123 HWY 75 NORTH	
	<			3 Feb 2024			WILLIS, TX
lumber : 06101 Number : 10899	468	Diag	nosed : 28	Feb 2024 - Don	Baldridge		US 77378
lumber : 06101	468 T	-				Contact: JC johnh@bucknerc	OHN HAWKINS