

### **OIL ANALYSIS REPORT**

Sample Rating Trend

WATER

## CLOVER COMPACTOR 120 #2

Component Gearbox Fluid CPP PG 220 (--- GAL)

# DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

#### Contamination

Free water present.

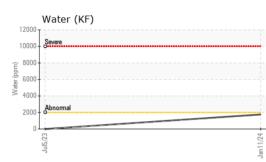
#### Fluid Condition

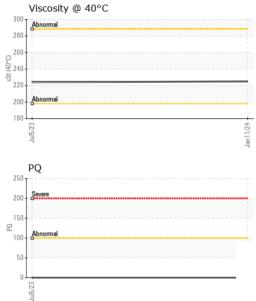
The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0738313	WC0738340	
Sample Date		Client Info		11 Jan 2024	05 Jul 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	
Iron	ppm	ASTM D5185(m)	>200	3	2	
Chromium	ppm	ASTM D5185(m)	>10	0	0	
Nickel	ppm	ASTM D5185(m)	>10	<1	0	
Titanium	ppm	ASTM D5185(m)		0	0	
Silver	ppm	ASTM D5185(m)		0	0	
Aluminum	ppm	ASTM D5185(m)	>25	<1	0	
Lead	ppm	ASTM D5185(m)	>50	0	0	
Copper	ppm	ASTM D5185(m)	>200	<1	2	
Tin	ppm	ASTM D5185(m)	>10	0	0	
Antimony	ppm	ASTM D5185(m)	>5	0	0	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		15	<1	
Barium	ppm	ASTM D5185(m)		0	0	
Molybdenum	ppm	ASTM D5185(m)		0	<1	
Manganese	ppm	ASTM D5185(m)		0	0	
Magnesium	ppm	ASTM D5185(m)		<1	3	
Calcium	ppm	ASTM D5185(m)		7	25	
Phosphorus	ppm	ASTM D5185(m)		329	142	
Zinc	ppm	ASTM D5185(m)		6	15	
Sulfur	ppm	ASTM D5185(m)		9440	4565	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>50	2	2	
Sodium	ppm	ASTM D5185(m)		<1	<1	
Potassium	ppm	ASTM D5185(m)	>20	1	0	
Water	%	ASTM D6304*	>0.2	0.175		
ppm Water	ppm	ASTM D6304*	>2000	1755		



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		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	
Precipitate	scalar	Visual*	NONE	NONE	NONE	
Silt	scalar	Visual*	NONE	NONE	NONE	
Debris	scalar	Visual*	NONE	VLITE	VLITE	
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	
Appearance	scalar	Visual*			NORML	
Odor	scalar	Visual*	NORML	NORML	NORML	
Emulsified Water	scalar	Visual*	>0.2	.2%	NEG	
Free Water		Visual*			NEG	
			limit/base			history2
			in in Dase			
			11 11 11			
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				10073		no image
Bottom					00	no image
Ferrous Alloys				Samo		
2 0 12/5			160- 140- 52			
			140 47/11 up 120	Abnormal		
Non-ferrous Metals	s		140 1201 1207 1007	Abnormal		
	5		140 47 120 120 100 100	dbnormal		
Non-ferrous Metals	5		140 1201 1207 1007	Abnormal		
Non-ferrous Metals	5		140 47 120 120 100 100	Abnormal		
Non-ferrous Metals	5		140 47 120 120 100 100 100 100	Abnormal		
Non-ferrous Metals	5		140 120 100 80 60 40	Abnormal		
Non-ferrous Metals	5		140. 120. 100. 60. 40. 20. 100.			172
Non-ferrous Metals	5		140 120 100 80 60 40	Abnormal		11 11 12 1
Non-ferrous Metals	5		140. 120. 100. 60. 40. 20. 100.			and 1724
Non-ferrous Metals	5		140. 120. 100. 60. 40. 20. 100.			Let 1124
Non-ferrous Metals	5		140. 120. 100. 60. 40. 20. 100.			ant 1724
Non-ferrous Metals	5		140. 120. 100. 60. 40. 20. 100.			2011/04
Non-ferrous Metals	5		140 120 100 100 100 100			2011/04
Non-ferrous Metals	5		140 120 100 100 100 100			Part 174
Non-ferrous Metals	5		140 120 100 100 100 100			Act int
	Silt Debris Sand/Dirt Appearance Odor Emulsified Water Free Water FLUID PROPERT Visc @ 40°C SAMPLE IMAGES Color Bottom GRAPHS Ferrous Alloys	Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Emulsified Water scalar Free Water scalar Free Water scalar Free Water cstar Scalar Scalar Entrop scalar SAMPLE IMAGES Color Color Bottom GRAPHS Ferrous Alloys	Silt  scalar  Visual*    Debris  scalar  Visual*    Sand/Dirt  scalar  Visual*    Appearance  scalar  Visual*    Odor  scalar  Visual*    Odor  scalar  Visual*    Odor  scalar  Visual*    Emulsified Water  scalar  Visual*    Free Water  scalar  Visual*    FLUID PROPERTIES  method    Visc @ 40°C  cSt  ASTM D7279(m)    SAMPLE IMAGES  method    Color  Samethod    Bottom	Silt  scalar  Visual*  NONE    Debris  scalar  Visual*  NONE    Sand/Dirt  scalar  Visual*  NONE    Appearance  scalar  Visual*  NORML    Odor  scalar  Visual*  NORML    Odor  scalar  Visual*  NORML    Odor  scalar  Visual*  NORML    Emulsified Water  scalar  Visual*  >0.2    Free Water  scalar  Visual*  >0.2    Free Water  scalar  Visual*  >0.2    FLUID PROPERTIES  method  limit/base    Visc @ 40°C  cSt  ASTM D7279(m)    SAMPLE IMAGES  method  limit/base    Color	Silt  scalar  Visual*  NONE  NONE    Debris  scalar  Visual*  NONE  VLITE    Sand/Dirt  scalar  Visual*  NONE  NONE    Appearance  scalar  Visual*  NONE  NONE    Appearance  scalar  Visual*  NORML  WGOIL    Odor  scalar  Visual*  NORML  WGOIL    Odor  scalar  Visual*  NORML  WGOIL    Odor  scalar  Visual*  NORML  NORML    Emulsified Water  scalar  Visual*  >0.2  .2%    Free Water  scalar  Visual*  >0.2  .2%    FtLUID PROPERTIES  method  limit/base  current    Visc @ 40°C  cSt  ASTM D7279(m)  225    SAMPLE IMAGES  method  limit/base  current    Color        Bottom         a         a </th <th>Silt  scalar  Visual*  NONE  NONE  NONE  NONE    Debris  scalar  Visual*  NONE  VLITE  VLITE    Sand/Dirt  scalar  Visual*  NONE  NONE  NONE    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Emulsified Water  scalar  Visual*  &gt;0.2  .2%  NEG    Free Water  scalar  Visual*  NOR  Imit/base  current  history1    Visc @ 40°C  cSt  ASTM D7279(m)  225  224    SAMPLE IMAGES  method  limit/base  current  history1    Color </th>	Silt  scalar  Visual*  NONE  NONE  NONE  NONE    Debris  scalar  Visual*  NONE  VLITE  VLITE    Sand/Dirt  scalar  Visual*  NONE  NONE  NONE    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Appearance  scalar  Visual*  NORML  WGOIL  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Odor  scalar  Visual*  NORML  NORML  NORML    Emulsified Water  scalar  Visual*  >0.2  .2%  NEG    Free Water  scalar  Visual*  NOR  Imit/base  current  history1    Visc @ 40°C  cSt  ASTM D7279(m)  225  224    SAMPLE IMAGES  method  limit/base  current  history1    Color

Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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