

**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL ATTENTION** 

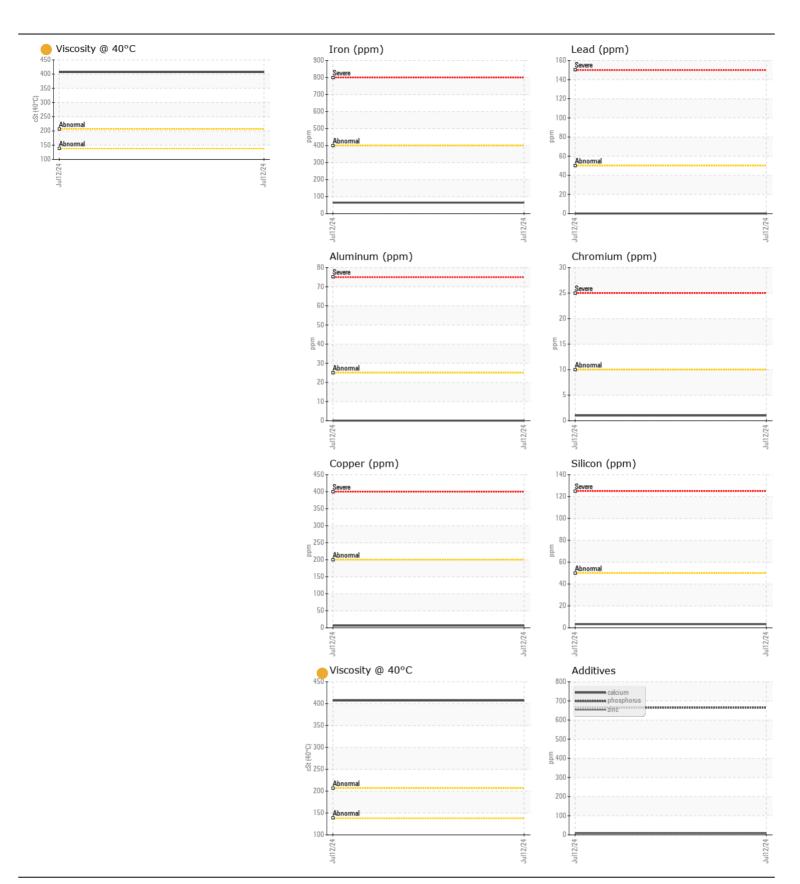


**Rentals** 

## **SANY SY500 CB229 (S/N SY0507CC01208)**Component

Swing Drive

Resample at the next service interval to monitor.   Sample Date   Client Info   12 Jul 2024	CITGO PREMIUM GEAR 80W9	0 ( GAL)						
Sample Number   Cilent Into   Live009133	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date   Client Info   12 Jul 2024	Resample at the next service interval to monitor.	Sample Number		Client Info				
Oil Age		Sample Date		Client Info		12 Jul 2024		
Filter Age		Machine Age	hrs	Client Info		474		
Oil Changed   Client Info   Not Changed   Client Info   NA IA		Oil Age	hrs	Client Info		474		
Filter Changed   Sample Status   Sample Stat		Filter Age	hrs	Client Info		0		
NEAR   Iron		Oil Changed		Client Info		Not Changd		
Iron		Filter Changed		Client Info		N/A		
All component wear rates are normal.    Chromium   ppm   ASTM D5185m   >10   0         Nickel   ppm   ASTM D5185m   >10   0         Silver   ppm   ASTM D5185m   >25   0         Aluminum   ppm   ASTM D5185m   >25   0         Aluminum   ppm   ASTM D5185m   >25   0         Aluminum   ppm   ASTM D5185m   >50   0         Copper   ppm   ASTM D5185m   >50   0         Tin   ppm   ASTM D5185m   >10   0         Tin   ppm   ASTM D5185m   >10   0         Vanadium   ppm   ASTM D5185m   >10   0         Valor   Vellow Metal   scalar   Visual   NONE   NONE         Vellow Metal   scalar   Visual   NONE   NONE         Valor   Water   WC Method   >0.2   NEG         Silt   scalar   Visual   NONE   NONE         Silt   scalar   Visual   NONE   NONE         Debris   scalar   Visual   NONE   NONE         Sand/Dirt   scalar   Visual   NONE   NONE         Sand/Dirt   scalar   Visual   NONE   NONE         Appearance   scalar   Visual   NONE   NONE           Appearance   scalar   Visual   NONE   NONE             Appearance   scalar   Visual   NONE   NONE		Sample Status				ATTENTION		
Nickel   ppm   ASTM D5185m   >10   0         Titanium   ppm   ASTM D5185m   >10   0         Titanium   ppm   ASTM D5185m   >50   0         Aluminum   ppm   ASTM D5185m   >50   0         Aluminum   ppm   ASTM D5185m   >50   0         Copper   ppm   ASTM D5185m   >50   0         Vanadium   ppm   ASTM D5185m   >0         Valum   NONE             Valum   NONE             Valum   NONE             Valum   NONE             Valum   NONE             Valum   NONE             Valum   NONE             Valum   NONE	WEAR	Iron	ppm	ASTM D5185m	>400	64		
Nickel   ppm   ASTM D5185m   >10   0	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	1		
Silver		Nickel	ppm	ASTM D5185m	>10	0		
Aluminum   ppm   ASTM D5185m   >25   0		Titanium	ppm	ASTM D5185m		<1		
Lead		Silver	ppm	ASTM D5185m		0		
Copper   ppm   ASTM D5185m   >200   6         Tin   ppm   ASTM D5185m   >10   0         Vanadium   ppm   ASTM D5185m   >10   0         Vanadium   ppm   ASTM D5185m   >10   0         White Metal   scalar "Visual   NONE   NONE         Yellow Metal   scalar "Visual   NONE   NONE         Yellow Metal   scalar "Strub D5185m   >20   1         Potassium   ppm   ASTM D5185m   >20   1         Water   WC Method   >0.2   NEG       Silt   scalar "Visual   NONE   NONE         Debris   scalar "Visual   NORML   NORML   NORML         Appearance   scalar "Visual   NORML   NORML   NORML         Debris   scalar "Visual   NORML   NORML   NORML         Debris   scalar "Visual   NORML   NORML   NORML         Debris   scalar "Visual   NORML   NORML           Appearance   scalar "Visual   NORML   NORML           Debris   scalar "Visual   NORML   NORML           Debris   scalar "Visual   NORML   NORML             Debris   scalar "Visual   NORML   NORML               Debris   scalar "Visual   NORML   NORML		Aluminum	ppm	ASTM D5185m	>25	0		
Tin		Lead	ppm	ASTM D5185m	>50	0		
Vanadium   ppm   ASTM D5185m   0         White Metal   scalar   "Visual   NONE   NONE         Yellow Metal   scalar   "Visual   NONE   NONE         Yellow Metal   scalar   "Visual   NONE   NONE         NONE		Copper	ppm	ASTM D5185m	>200	6		
White Metal   Scalar   *Visual   NONE   NONE		Tin	ppm	ASTM D5185m	>10	0		
Yellow Metal   scalar   "Visual   NONE   NONE		Vanadium	ppm	ASTM D5185m		0		
Silicon   ppm   ASTM D5185m   >50   3		White Metal	scalar	*Visual	NONE	NONE		
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium	CONTAMINATION	Silicon	mag	ASTM D5185m	>50	3		
Water   WC Method   >0.2   NEG         Silt   scalar   *Visual   NONE   NONE         Debris   scalar   *Visual   NONE   NONE         Debris   scalar   *Visual   NONE   NONE         Appearance   scalar   *Visual   NORML	There is no indication of any contamination in the oil.	Potassium		ASTM D5185m	>20	1		
Debris   Scalar   *Visual   NONE   NONE         Sand/Dirt   Scalar   *Visual   NONE   NONE         Appearance   Scalar   *Visual   NORML   NORML   NORML         Appearance   Scalar   *Visual   NORML   NOR		Water		WC Method	>0.2	NEG		
Sand/Dirt   scalar   *Visual   NONE   NONE         Appearance   scalar   *Visual   NORML   NORML   NORML   NORML   NORML   NORML     Emulsified Water   scalar   *Visual   NORML   NORML   NORML   NORML   NORML     Emulsified Water   scalar   *Visual   NORML   NORML   NORML   NORML     Emulsified Water   scalar   *Visual   NORML   NORML   NORML     Emulsified Water   scalar   *Visual   NORML   NORML   NORML     NORML         NEG         Boron   ppm   ASTM D5185m   0       Barium   ppm   ASTM D5185m   4       Molybdenum   ppm   ASTM D5185m   0       Manganese   ppm   ASTM D5185m   2       Magnesium   ppm   ASTM D5185m   2       Calcium   ppm   ASTM D5185m   9       Phosphorus   ppm   ASTM D5185m   665       Zinc   ppm   ASTM D5185m   11       Sulfur   ppm   ASTM D5185m   27433		Silt	scalar	*Visual	NONE	NONE		
Appearance   Scalar   *Visual   NORML   NORML   Codor   Scalar   *Visual   NORML   N		Debris	scalar	*Visual	NONE	NONE		
Odor		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water   scalar *Visual   >0.2   NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium   ppm   ASTM D5185m   3		Odor	scalar	*Visual	NORML	NORML		
Boron   ppm   ASTM D5185m   Q         Barium   ppm   ASTM D5185m   Q         Molybdenum   ppm   ASTM D5185m   Q         Manganese   ppm   ASTM D5185m   Q         Magnesium   ppm   ASTM D5185m   Q         Magnesium   ppm   ASTM D5185m   Q         Calcium   ppm   ASTM D5185m   Q         Calcium   ppm   ASTM D5185m   Q         Phosphorus   ppm   ASTM D5185m   G65         Zinc   ppm   ASTM D5185m   11         Sulfur   ppm   ASTM D5185m   27433		Emulsified Water	scalar	*Visual	>0.2	NEG		
Barium   ppm   ASTM D5185m   4         Molybdenum   ppm   ASTM D5185m   0         Manganese   ppm   ASTM D5185m   2         Magnesium   ppm   ASTM D5185m   2         Calcium   ppm   ASTM D5185m   9         Phosphorus   ppm   ASTM D5185m   665         Zinc   ppm   ASTM D5185m   11         Sulfur   ppm   ASTM D5185m   27433	FLUID CONDITION	Sodium	ppm	ASTM D5185m		3		
Barium         ppm         ASTM D5185m         4             Molybdenum         ppm         ASTM D5185m         0             Manganese         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         9             Phosphorus         ppm         ASTM D5185m         665             Zinc         ppm         ASTM D5185m         11             Sulfur         ppm         ASTM D5185m         27433	The oil viscosity is higher than normal. Confirm oil type.	Boron	ppm	ASTM D5185m		0		
Manganese         ppm         ASTM D5185m         2             Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         9             Phosphorus         ppm         ASTM D5185m         665             Zinc         ppm         ASTM D5185m         11             Sulfur         ppm         ASTM D5185m         27433		Barium	ppm	ASTM D5185m		4		
Magnesium         ppm         ASTM D5185m         2             Calcium         ppm         ASTM D5185m         9             Phosphorus         ppm         ASTM D5185m         665             Zinc         ppm         ASTM D5185m         11             Sulfur         ppm         ASTM D5185m         27433		Molybdenum	ppm	ASTM D5185m		0		
Calcium         ppm         ASTM D5185m         9             Phosphorus         ppm         ASTM D5185m         665             Zinc         ppm         ASTM D5185m         11             Sulfur         ppm         ASTM D5185m         27433		Manganese	ppm	ASTM D5185m		2		
Phosphorus         ppm         ASTM D5185m         665             Zinc         ppm         ASTM D5185m         11             Sulfur         ppm         ASTM D5185m         27433		Magnesium	ppm	ASTM D5185m		2		
Zinc         ppm         ASTM D5185m         11             Sulfur         ppm         ASTM D5185m         27433		Calcium	ppm	ASTM D5185m		9		
Sulfur         ppm         ASTM D5185m         27433		Phosphorus	ppm	ASTM D5185m		665		
		Zinc	ppm	ASTM D5185m		11		
Visc @ 40°C cSt ASTM D445			ppm			27433		
Opport Id. THOLVN [M/LISCAD] 06220470 (Congreted: 07/10/2024 12:22:26) Pay: 1		Visc @ 40°C	cSt	ASTM D445				





Certificate L2367

Laboratory Sample No.

Lab Number : 06239470 Unique Number : 11128304 Test Package : MOB 1

: LW0009133

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed : 19 Jul 2024 - Don Baldridge

3142 EAST LINCOLN LYNWOOD, IL US 60411-7728 Contact: Mike Korbelik

**CHICAGO MACHINERY INC** 

mike@chicagomachineryinc.com T: (708)758-2060

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: