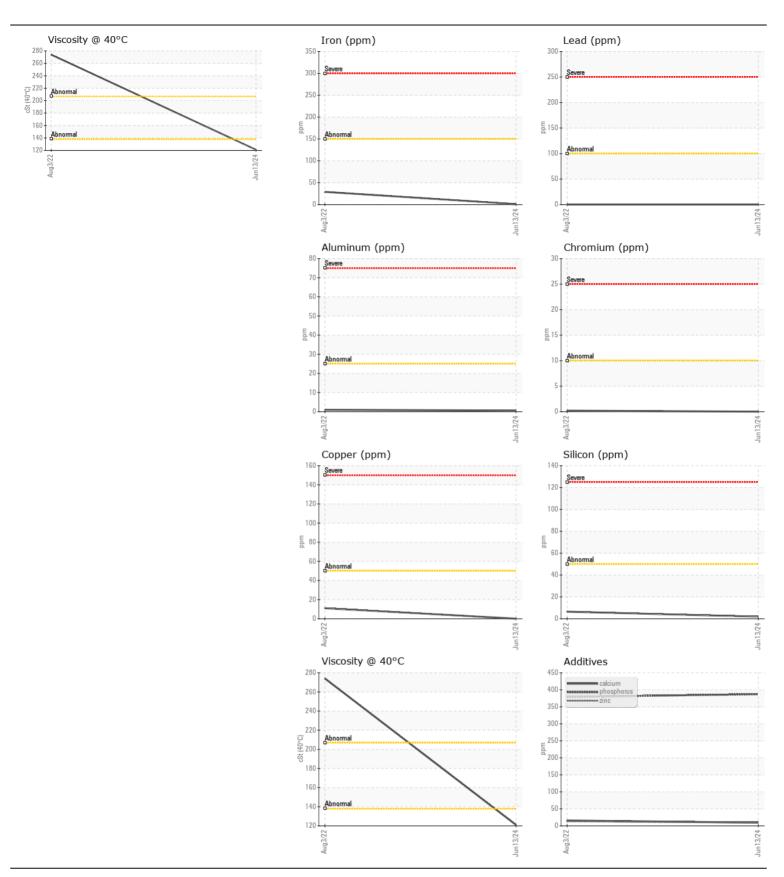
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**



TA Machines SANY SY235 CA251 (S/N 13SY023B85188)

Swing Drive

All component wear rates are normal. Chromium ppm ASTM D5185m >10 0 0 0 0 0 0 0 0 0	CITGO PREMIUM GEAR 80W	90 (GAL)						
Resample at the next service interval to monitor. Sample Number Client Info 13 Jun 2022 Client Info 13 Jun 2022 Client Info 13 Jun 2022 Client Info 14 Jun 1526 Client Info 14 Jun 1526 Client Info 14 Jun 1526 Client Info 15 Jun 1526 Client Info 14 Jun 1526 Client Info 15	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Into 13 Jun 2020 20 Jun 20 Jun		Sample Number		Client Info		LW0009095	LW0005213	
Oil Age		Sample Date		Client Info		13 Jun 2024	03 Aug 2022	
Filter Age		Machine Age	hrs	Client Info		2140	1526	
Oil Changed Client Info Net Changed		Oil Age	hrs	Client Info		2140	1526	
Filter Changed Sample Status		Filter Age	hrs	Client Info		0	0	
NORMAL N		Oil Changed		Client Info		Not Changd	Not Changd	
Iron		Filter Changed		Client Info		N/A	N/A	
All component wear rates are normal. Chromium ppm ASTM D5185m >10 0 0 0 0 0 0 0 0 0		Sample Status				NORMAL	NORMAL	
Nickel ppm ASTM DS185m >10 0 0	WEAR	Iron	ppm	ASTM D5185m	>150	1	29	
Nickel ppm ASTM DS185m 10 0 0	All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	<1	
Silver		Nickel	ppm	ASTM D5185m	>10	0	0	
Aluminum ppm ASTM D5185m >25 <1 1		Titanium	ppm	ASTM D5185m		<1	0	
Lead ppm ASTM D5185m >100 0 0		Silver	ppm	ASTM D5185m		0	0	
Copper		Aluminum	ppm	ASTM D5185m	>25	<1	1	
Tin		Lead	ppm	ASTM D5185m	>100	0	0	
Vanadium ppm ASTM D5185m <1 0		Copper	ppm	ASTM D5185m	>50	<1	11	
White Metal Scalar *Visual NONE NO		Tin	ppm	ASTM D5185m	>10	0	0	
Yellow Metal scalar "Visual NONE N		Vanadium	ppm	ASTM D5185m		<1	0	
Silicon ppm ASTM D5185m >50 2 6		White Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Potassium	CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	2	6	
Water		Potassium	ppm	ASTM D5185m	>20	3	0	
Debris Scalar *Visual NONE LIGHT NONE		Water		WC Method	>0.1	NEG	NEG	
Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML NORM		Silt	scalar	*Visual	NONE	NONE	NONE	
Appearance Scalar *Visual NORML NORML NORML Odor Scalar *Visual NORML NORML		Debris	scalar	*Visual	NONE	LIGHT	NONE	
Odor Scalar *Visual NORML NEG NE		Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Emulsified Water scalar *Visual >0.1 NEG NEG		Appearance	scalar	*Visual	NORML	NORML	NORML	
Sodium ppm ASTM D5185m 0 0		Odor	scalar	*Visual	NORML	NORML	NORML	
Boron ppm ASTM D5185m 2 2 Barium ppm ASTM D5185m 0 11 Molybdenum ppm ASTM D5185m 0 0 0 Magnesium ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 2 4 Calcium ppm ASTM D5185m 9 16 Phosphorus ppm ASTM D5185m 387 379 Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C CSt ASTM D445 121 274		Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Barium ppm ASTM D5185m 0 11 Molybdenum ppm ASTM D5185m 0 0 0 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 2 4 Calcium ppm ASTM D5185m 9 16 Phosphorus ppm ASTM D5185m 9 13 Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C CSt ASTM D445 121 274	FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	
Barium ppm ASTM D5185m 0 11 Molybdenum ppm ASTM D5185m 0 0 Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 2 4 Calcium ppm ASTM D5185m 9 16 Phosphorus ppm ASTM D5185m 387 379 Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C cSt ASTM D445 121 274	The condition of the oil is acceptable for the time in service	Boron	ppm	ASTM D5185m		2	2	
Manganese ppm ASTM D5185m 0 1 Magnesium ppm ASTM D5185m 2 4 Calcium ppm ASTM D5185m 9 16 Phosphorus ppm ASTM D5185m 387 379 Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C cSt ASTM D445 121 274		Barium	ppm	ASTM D5185m		0	11	
Magnesium ppm ASTM D5185m 2 4 Calcium ppm ASTM D5185m 9 16 Phosphorus ppm ASTM D5185m 387 379 Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C cSt ASTM D445 121 274		Molybdenum	ppm	ASTM D5185m		0	0	
Calcium ppm ASTM D5185m 9 16 Phosphorus ppm ASTM D5185m 387 379 Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C cSt ASTM D445 121 274		Manganese	ppm	ASTM D5185m		0	1	
Phosphorus ppm ASTM D5185m 387 379 Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C cSt ASTM D445 121 274		Magnesium	ppm	ASTM D5185m		2	4	
Zinc ppm ASTM D5185m 9 13 Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C cSt ASTM D445 121 274		Calcium	ppm	ASTM D5185m		9	16	
Sulfur ppm ASTM D5185m 17376 20186 Visc @ 40°C cSt ASTM D445 121 274		Phosphorus	ppm	ASTM D5185m		387	379	
Visc @ 40°C cSt ASTM D445 121 274		Zinc	ppm	ASTM D5185m		9	13	
		Visc @ 40°C	cSt	ASTM D445				







Certificate L2367

Laboratory Sample No.

: LW0009095 Lab Number : 06223844 Unique Number : 11102041 Test Package : MOB 1

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 28 Jun 2024 **Tested** : 29 Jun 2024 Diagnosed

: 30 Jun 2024 - Don Baldridge

US 60411-7728 Contact: Mike Korbelik mike@chicagomachineryinc.com T: (708)758-2060 F:

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)

CHICAGO MACHINERY INC

3142 EAST LINCOLN

LYNWOOD, IL