

WEAR
CONTAMINATION
FLUID CONDITION

NORMAL SEVERE NORMAL



# TMR-Sarasota

# 23818 LIEBHERR A934 1006-38725

**Swing Drive** 

GEAR OIL SAE 85W140 (10 LTR)

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R		$\frown$	$\frown$	1.7			м	П	Λ	-	VA.	п
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We advise that you check for the source of water entry. 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.

Test	t UOM		Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0023212	DJJ0008526	DJJ0008470
Sample Date		Client Info		14 Jun 2024	19 Jan 2023	23 Nov 2021
Machine Age	hrs	Client Info		18889	18127	16762
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		Not Changd	N/A	N/A
Sample Status				SEVERE	ATTENTION	SEVERE
Iron	ppm	ASTM D5185m	>1700	299	7	1329
Chromium	ppm	ASTM D5185m	>15	3	<1	14
Nickel	ppm	ASTM D5185m	>4	<1	0	3

## WEAR

All component wear rates are normal.

Chromium	ppiii	ASTIVI DOTOSITI	>10	, J	< 1	14
Nickel	ppm	ASTM D5185m	>4	<1	0	3
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	6
Aluminum	ppm	ASTM D5185m	>4	2	0	4
Lead	ppm	ASTM D5185m	>10	0	<1	<1
Copper	ppm	ASTM D5185m	>550	410	10	<b>4</b> 900
Tin	ppm	ASTM D5185m	>30	15	<1	<u>\$\times\$</u> 25
Vanadium	ppm	ASTM D5185m		<1	0	0

NONE

NONE

\*Visual

\*Visual

scalar

scalar

White Metal

Yellow Metal

NONE

NONE

LIGHT

NONE

NONE

NONE

### CONTAMINATION

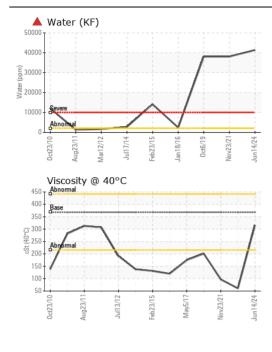
There is a high concentration of water present in the oil.

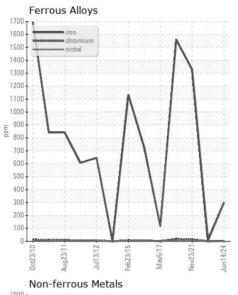
Silicon	ppm	ASTM D5185m	>20	15	5	1	6
Potassium	ppm	ASTM D5185m	>20	1		<1	3
Water	%	ASTM D6304	>0.2	<b>4</b> .	14		3.81
ppm Water	ppm	ASTM D6304	>2000	<b>4</b> 1	400		38100
Silt	scalar	*Visual	NONE	М	ODER	NONE	NONE
Debris	scalar	*Visual	NONE	NO	ONE	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NO	ONE	NONE	NONE
Appearance	scalar	*Visual	NORML	MI	ILKY	NORML	MILKY
Odor	scalar	*Visual	NORML	NC	ORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	<b>▲</b> 0.2	2%	NEG	0.2%

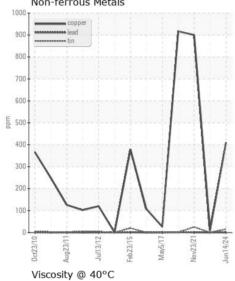
### FLUID CONDITION

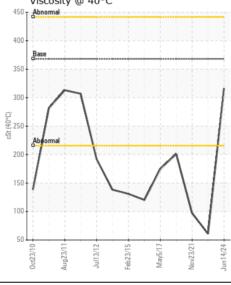
The oil is no longer serviceable due to the presence of contaminants.

<b>Emulsified Water</b>	scalar	*Visual	>0.2	<b>0.2%</b>	NEG	▲ 0.2%
Sodium	ppm	ASTM D5185m		6	0	2
Boron	ppm	ASTM D5185m	400	31	8	15
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	3	9	7
Manganese	ppm	ASTM D5185m		2	0	11
Magnesium	ppm	ASTM D5185m	12	23	<b>4</b> 0	15
Calcium	ppm	ASTM D5185m	150	110	<b>1</b> 99	145
Phosphorus	ppm	ASTM D5185m	1650	616	442	899
Zinc	ppm	ASTM D5185m	125	230	498	306
Sulfur	ppm	ASTM D5185m	22500	17145	<u> </u>	5994
Visc @ 40°C	cSt	ASTM D445	368	316	60.9	96.9











Laboratory Sample No. Unique Number : 11089028

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06216164

: DJJ0023212

Received : 20 Jun 2024 **Tested** Diagnosed

: 21 Jun 2024

: 23 Jun 2024 - Don Baldridge

TRADEMARK METALS RECYCLING - SARASOTA - MYRTLE ST 1735 MYRTLE STREET

SARASOTA, FL US 34234

Contact: RYAN BOWDEN

Test Package : CONST ( Additional Tests: KF ) Certificate L2367 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: (941)359-2457

Contact/Location: RYAN BOWDEN - TRASARFL