



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
IOWA COLONY T-2103
 Component
Transfer Case
 Fluid
GEAR OIL SAE 80W140 (--- Shots)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0941947	WC0823037	WC0792367
Sample Date		Client Info		30 Jun 2024	05 Dec 2023	01 May 2023
Machine Age	mls	Client Info		0	0	0
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	134	138	146
Chromium	ppm	ASTM D5185m	>5	6	5	6
Nickel	ppm	ASTM D5185m	>5	2	<1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>45	3	<1	1
Lead	ppm	ASTM D5185m	>150	<1	0	0
Copper	ppm	ASTM D5185m	>100	2	2	2
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

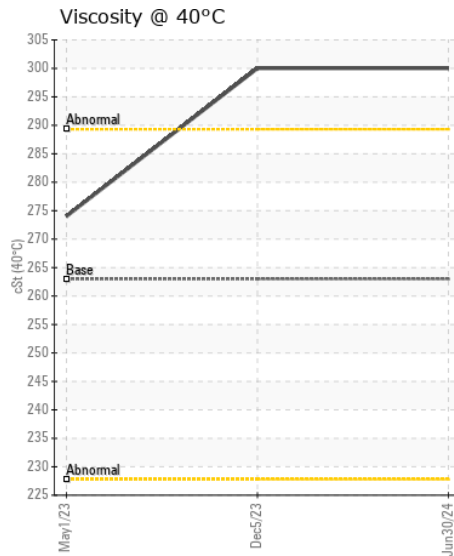
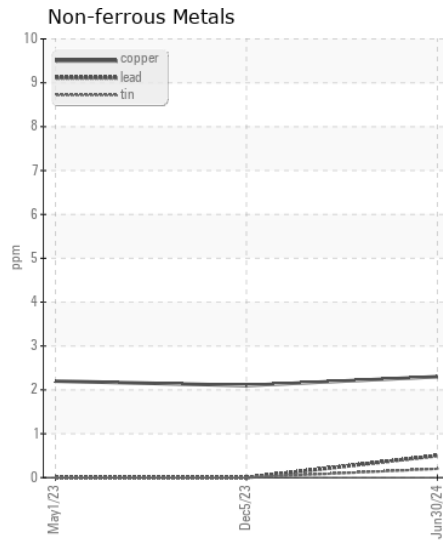
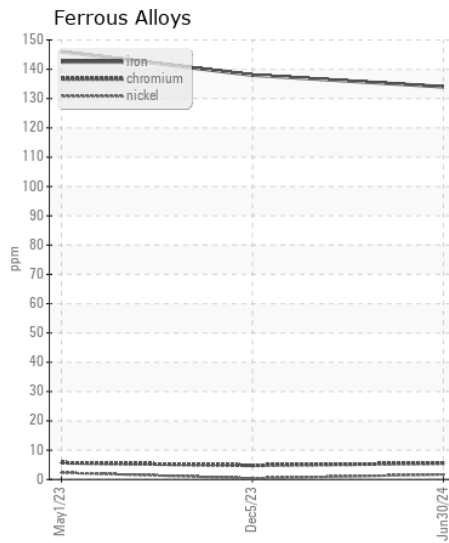
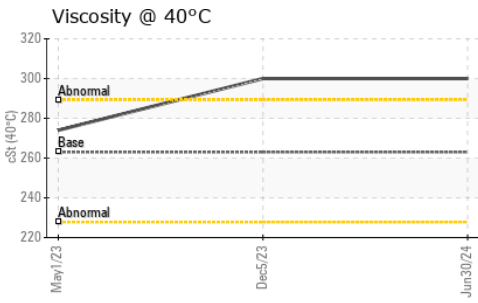
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>85	22	24	28
Potassium	ppm	ASTM D5185m	>20	2	0	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		0	3	2
Boron	ppm	ASTM D5185m	400	247	260	217
Barium	ppm	ASTM D5185m	200	<1	0	0
Molybdenum	ppm	ASTM D5185m	12	<1	0	1
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m	12	3	0	5
Calcium	ppm	ASTM D5185m	150	28	44	76
Phosphorus	ppm	ASTM D5185m	1650	948	960	1063
Zinc	ppm	ASTM D5185m	125	26	27	59
Sulfur	ppm	ASTM D5185m	22500	20237	20898	28770
Visc @ 40°C	cSt	ASTM D445	263	300	300	274



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0941947
Lab Number : 06224900
Unique Number : 11103097
Test Package : CONST

Received : 01 Jul 2024
Tested : 02 Jul 2024
Diagnosed : 02 Jul 2024 - Don Baldrige

SIDDONS-MARTIN EMERGENCY GROUP
 4401 REX RD
 FRIENDSWOOD, TX
 US 77546
 Contact: NOEL GARZA
 ngarza@siddons-martin.com

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)

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