



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
INGERSOLL-RAND SD70#6 (S/N 146402)
 Component
Right Hub
 Fluid
SAE 50W (--- GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TLY0002569	TLY0001483	---
Sample Date		Client Info		02 Jul 2024	29 Jun 2023	---
Machine Age	hrs	Client Info		3615	3354	---
Oil Age	hrs	Client Info		3354	1354	---
Filter Age	hrs	Client Info		3354	1354	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				SEVERE	SEVERE	---

WEAR

The iron level has decreased, but is still abnormal. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>200	▲ 531	▲ 1721	---
Chromium	ppm	ASTM D5185m	>10	4	▲ 12	---
Nickel	ppm	ASTM D5185m	>10	2	2	---
Titanium	ppm	ASTM D5185m		2	4	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m		13	70	---
Lead	ppm	ASTM D5185m		<1	0	---
Copper	ppm	ASTM D5185m		6	4	---
Tin	ppm	ASTM D5185m		0	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

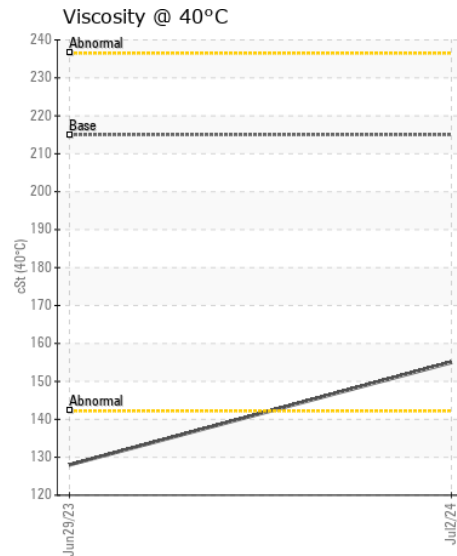
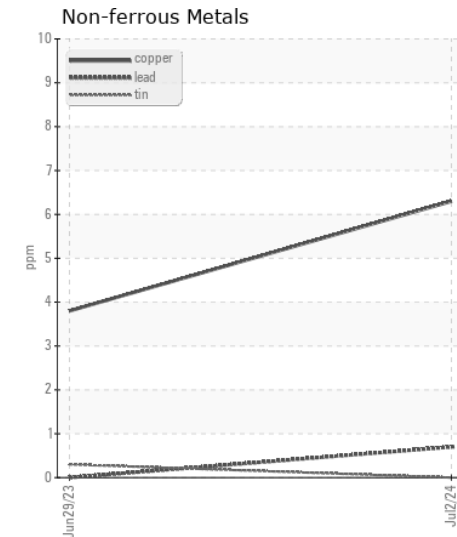
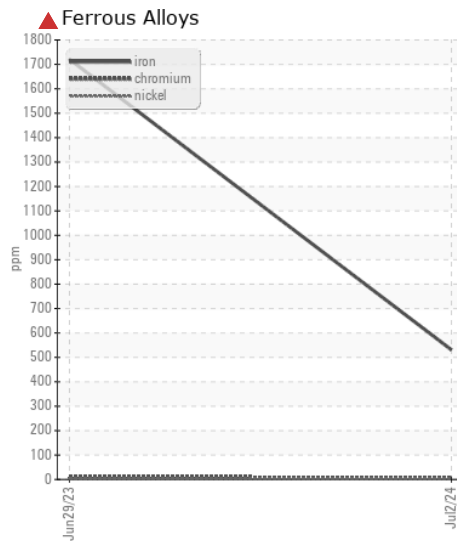
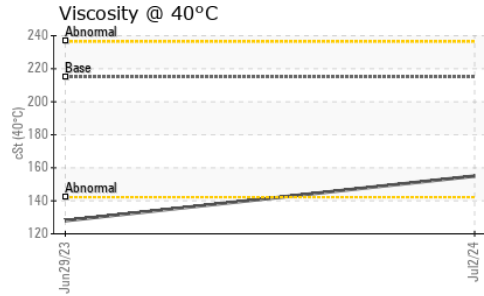
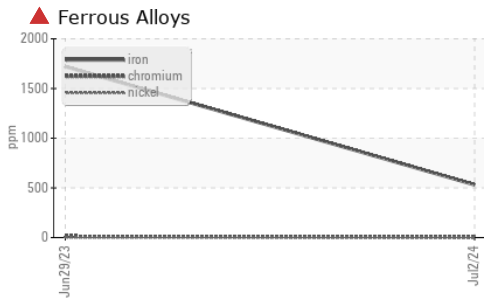
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m		48	222	---
Potassium	ppm	ASTM D5185m	>20	5	13	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	MODER	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		11	6	---
Boron	ppm	ASTM D5185m		128	36	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		6	17	---
Magnesium	ppm	ASTM D5185m		6	12	---
Calcium	ppm	ASTM D5185m		54	240	---
Phosphorus	ppm	ASTM D5185m		1380	521	---
Zinc	ppm	ASTM D5185m		48	96	---
Sulfur	ppm	ASTM D5185m		21406	18740	---
Visc @ 40°C	cSt	ASTM D445	215	155	128	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TLY0002569
Lab Number : 06229328
Unique Number : 11112821
Test Package : CONST
Received : 05 Jul 2024
Tested : 09 Jul 2024
Diagnosed : 09 Jul 2024 - Don Baldrige

GAINES & COMPANY
 112 WESTMINSTER RD
 REISTERSTOWN, MD
 US 21136

Contact: LANCE TANCRAITOR
 ltancraitor@gainesandco.com
 T: (410)833-9833

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: