



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
22033
 Component
Differential
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

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

WEAR

Gear wear is indicated.

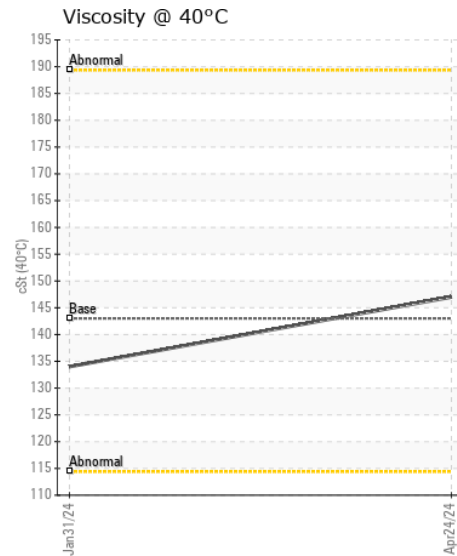
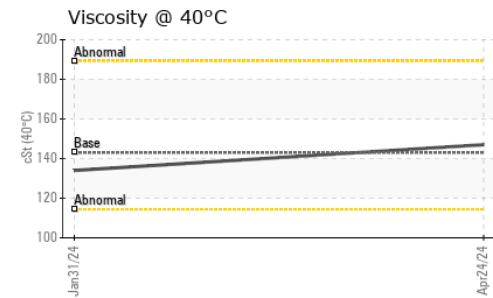
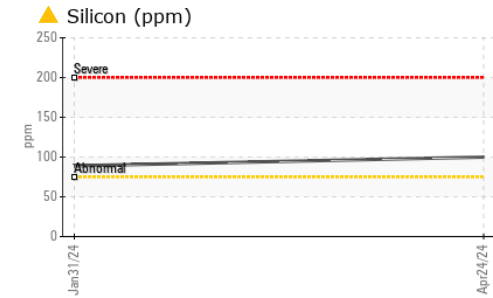
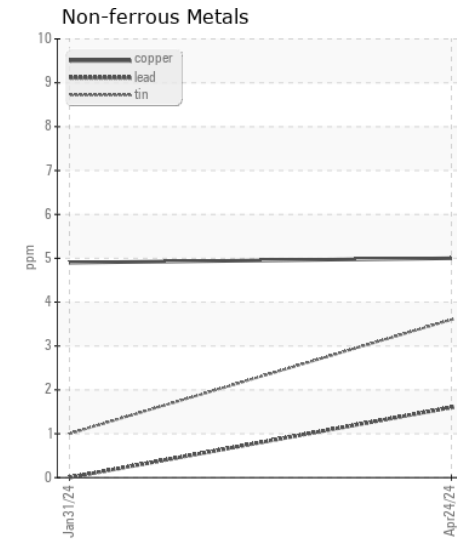
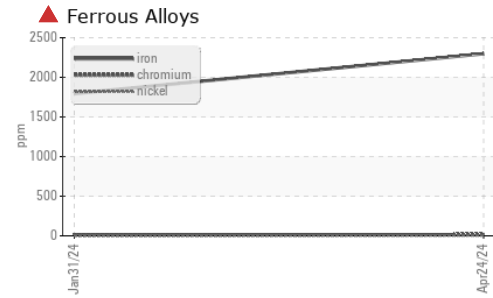
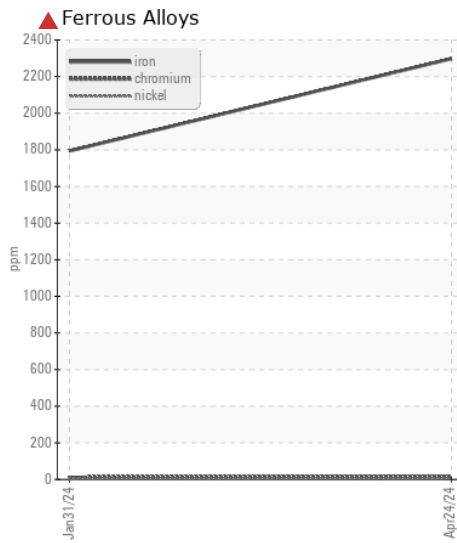
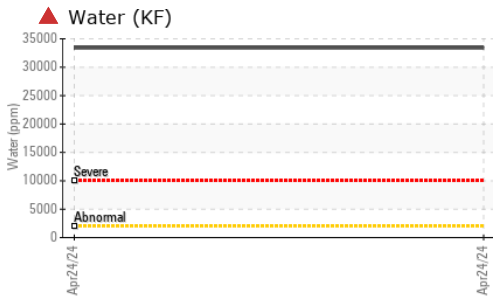
CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material. High concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0897935	WC0897938	---
Sample Date		Client Info		24 Apr 2024	31 Jan 2024	---
Machine Age	hrs	Client Info		0	1801	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>500	▲ 2298	▲ 1794	---
Chromium	ppm	ASTM D5185m	>10	▲ 15	▲ 11	---
Nickel	ppm	ASTM D5185m	>10	4	2	---
Titanium	ppm	ASTM D5185m		1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	6	4	---
Lead	ppm	ASTM D5185m	>25	2	0	---
Copper	ppm	ASTM D5185m	>100	5	5	---
Tin	ppm	ASTM D5185m	>10	4	1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>75	▲ 100	▲ 89	---
Potassium	ppm	ASTM D5185m	>20	48	35	---
Water	%	ASTM D6304	>.2	▲ 3.34	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 33400	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	▲ HEAVY	LIGHT	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	▲ 0.2%	NEG	---
Sodium	ppm	ASTM D5185m	>170	24	14	---
Boron	ppm	ASTM D5185m	400	159	67	---
Barium	ppm	ASTM D5185m	200	24	19	---
Molybdenum	ppm	ASTM D5185m	12	7	5	---
Manganese	ppm	ASTM D5185m		68	43	---
Magnesium	ppm	ASTM D5185m	12	23	11	---
Calcium	ppm	ASTM D5185m	150	70	74	---
Phosphorus	ppm	ASTM D5185m	1650	1012	801	---
Zinc	ppm	ASTM D5185m	125	211	151	---
Sulfur	ppm	ASTM D5185m	22500	30341	21866	---
Visc @ 40°C	cSt	ASTM D445	143	147	134	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0897935 **Received** : 09 May 2024
Lab Number : 06174296 **Tested** : 13 May 2024
Unique Number : 11020349 **Diagnosed** : 13 May 2024 - Don Baldrige
Test Package : CONST (Additional Tests: KF)

SIDDONS MARTIN EMERGENCY GROUP
 4901 ROY J SMITH DR
 KILLEEN, TX
 US 76543
 Contact: Service Manager

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)

T:
F: