



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ABNORMAL

SEVERE

NORMAL

Machine Id

31262

Component

Right Final Drive

Fluid

GEAR OIL SAE 80W90 (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

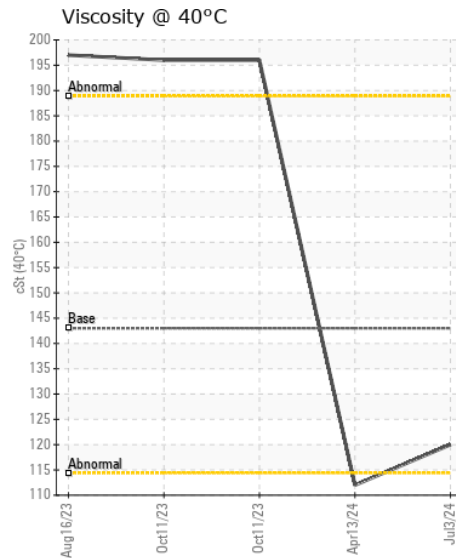
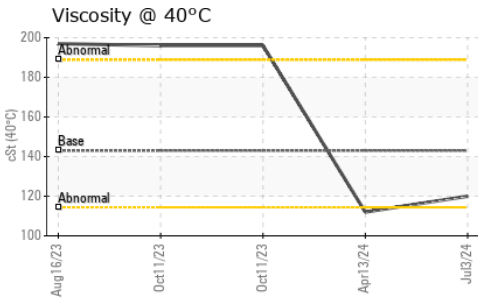
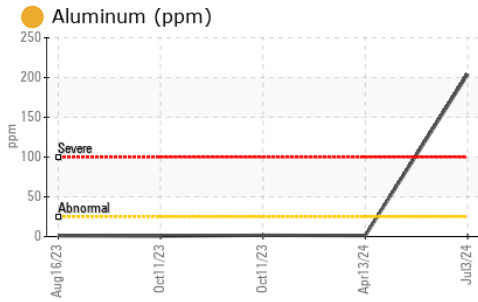
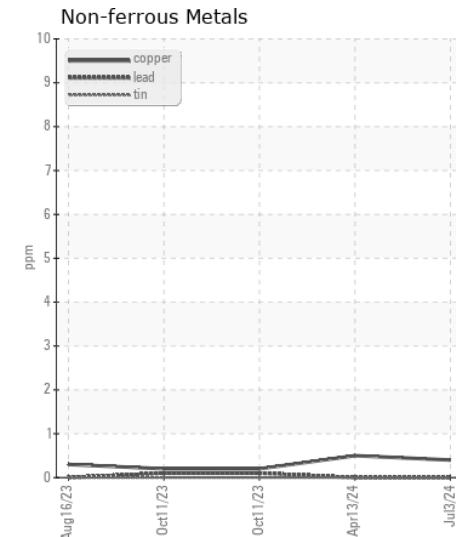
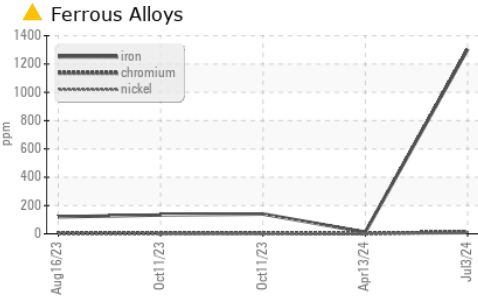
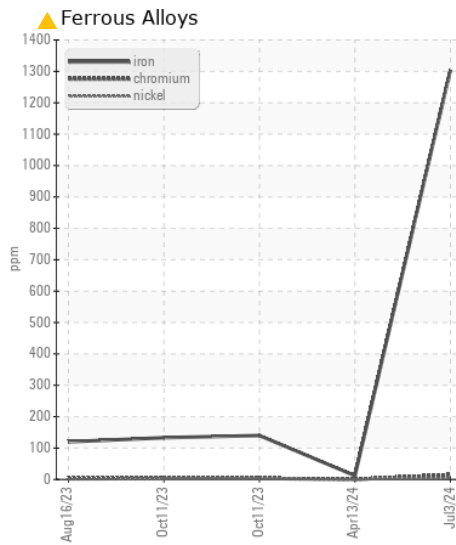
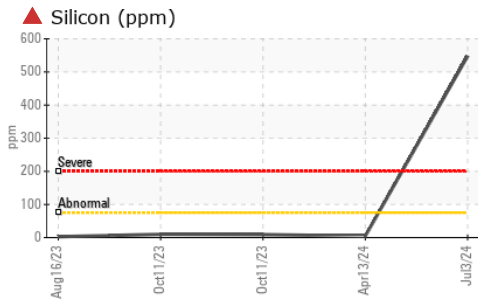
The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0950762	WC0924567	WC0856752
Sample Date		Client Info		03 Jul 2024	13 Apr 2024	11 Oct 2023
Machine Age	hrs	Client Info		1141	827	349
Oil Age	hrs	Client Info		1250	250	349
Filter Age	hrs	Client Info		1250	250	349
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	NORMAL	NORMAL

Iron	ppm	ASTM D5185m	>500	▲ 1304	12	133
Chromium	ppm	ASTM D5185m	>10	▲ 15	<1	3
Nickel	ppm	ASTM D5185m	>10	4	0	1
Titanium	ppm	ASTM D5185m		10	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	● 204	1	<1
Lead	ppm	ASTM D5185m	>25	0	0	<1
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>75	▲ 548	5	10
Potassium	ppm	ASTM D5185m	>20	41	2	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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

Sodium	ppm	ASTM D5185m	>170	15	<1	5
Boron	ppm	ASTM D5185m	400	76	143	4
Barium	ppm	ASTM D5185m	200	6	0	12
Molybdenum	ppm	ASTM D5185m	12	6	13	<1
Manganese	ppm	ASTM D5185m		13	0	2
Magnesium	ppm	ASTM D5185m	12	21	53	1
Calcium	ppm	ASTM D5185m	150	73	178	12
Phosphorus	ppm	ASTM D5185m	1650	2711	2328	1261
Zinc	ppm	ASTM D5185m	125	70	143	31
Sulfur	ppm	ASTM D5185m	22500	20292	18066	27413
Visc @ 40°C	cSt	ASTM D445	143	120	112	196



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0950762

Lab Number : 06233628

Unique Number : 11117121

Test Package : CONST

Received : 11 Jul 2024

Tested : 12 Jul 2024

Diagnosed : 13 Jul 2024 - Don Baldridge

SULLIVAN EASTERN INC

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US 27560

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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)