



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
TPR-Houston Port
 Machine Id
452191 SENNOBOGEN 840ME 452191
 Component
Right Swing Drive
 Fluid
GEAR OIL SAE 80W90 (5 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DJJ0023464	DJJ0018907	DJJ0010310
Sample Date		Client Info		24 May 2024	11 Jan 2024	05 Dec 2023
Machine Age	hrs	Client Info		11110	10693	10520
Oil Age	hrs	Client Info		11110	1234	10520
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
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	>400	77	37	43
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>50	0	0	0
Copper	ppm	ASTM D5185m	>200	33	43	29
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

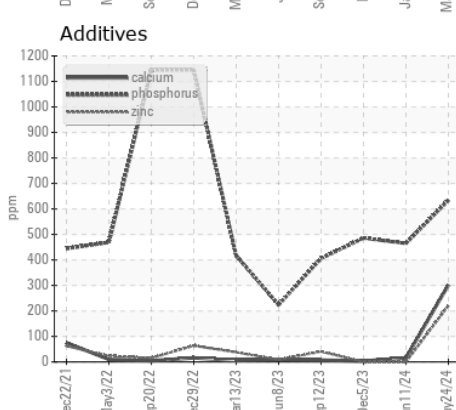
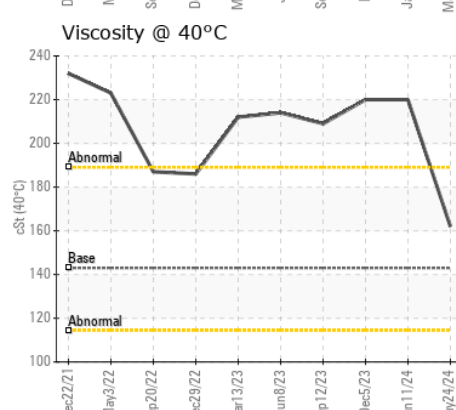
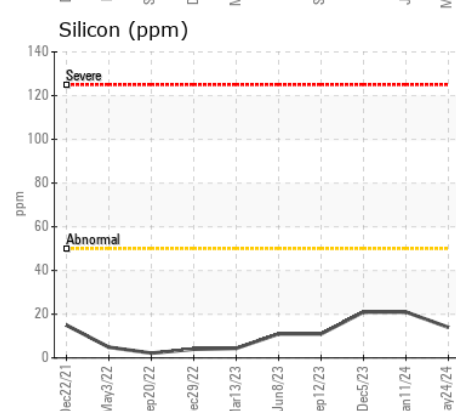
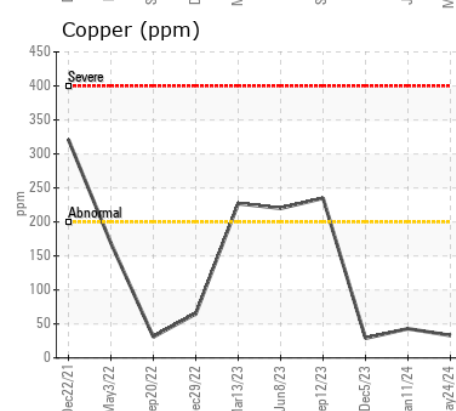
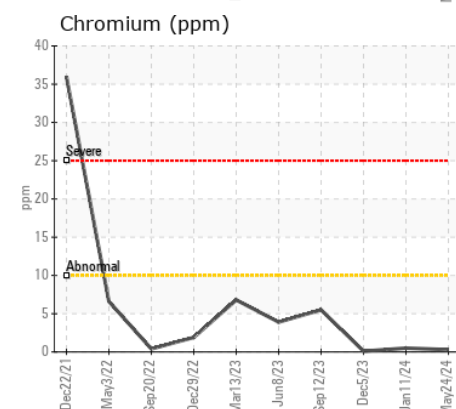
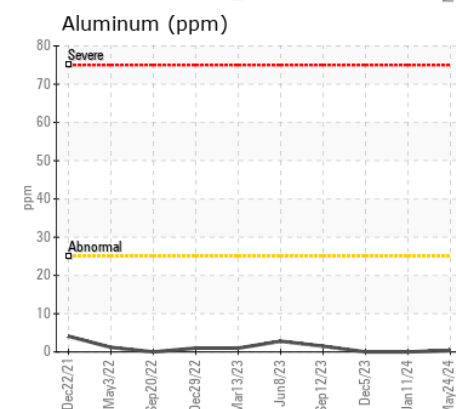
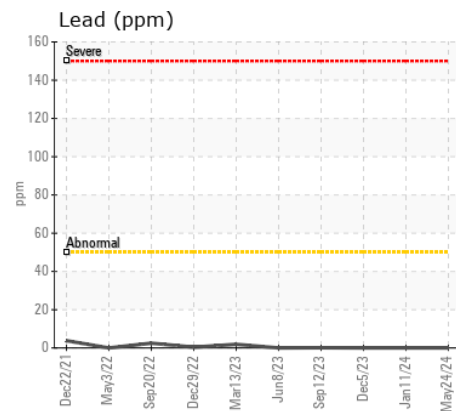
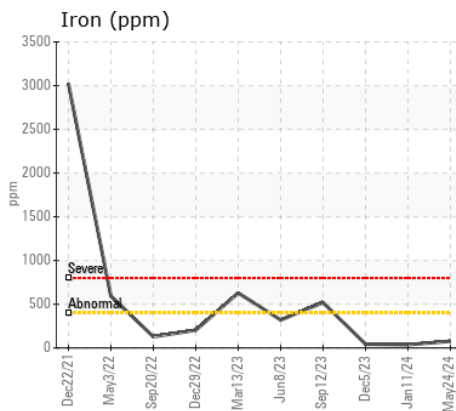
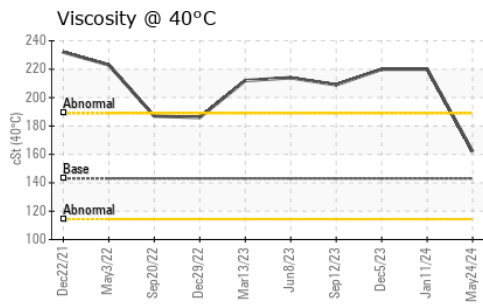
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	14	21	21
Potassium	ppm	ASTM D5185m	>20	3	0	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	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	>170	2	0	0
Boron	ppm	ASTM D5185m	400	57	0	<1
Barium	ppm	ASTM D5185m	200	0	0	0
Molybdenum	ppm	ASTM D5185m	12	0	0	0
Manganese	ppm	ASTM D5185m		1	0	<1
Magnesium	ppm	ASTM D5185m	12	195	<1	<1
Calcium	ppm	ASTM D5185m	150	302	16	3
Phosphorus	ppm	ASTM D5185m	1650	635	465	486
Zinc	ppm	ASTM D5185m	125	221	0	0
Sulfur	ppm	ASTM D5185m	22500	3860	167	629
Visc @ 40°C	cSt	ASTM D445	143	162	220	220



Certificate L2367

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

Sample No. : DJJ0023464

Lab Number : 06197087

Unique Number : 11059210

Test Package : MOBCE

Received : 31 May 2024

Tested : 03 Jun 2024

Diagnosed : 04 Jun 2024 - Don Baldrige

TEXAS PORT RECYCLING - HOUSTON PORT

8945 MANCHESTER ST

HOUSTON, TX

US 77012

Contact: Dale Shaw

dale.shaw@tmrecycling.com

T:

F: (713)921-5545

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)