



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
53.170L []
Component
Right Chain Case
Fluid
MOBIL MOBILTRANS AST 30 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. 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		WC0873975	WC0800860	WC0741823
Sample Date		Client Info		03 Jan 2024	06 Jun 2023	13 Dec 2022
Machine Age	hrs	Client Info		2023	1416	703
Oil Age	hrs	Client Info		1000	1416	703
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>632	1206	513	563
Chromium	ppm	ASTM D5185m	>3	2	2	1
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>19	4	6	3
Lead	ppm	ASTM D5185m	>6	0	0	1
Copper	ppm	ASTM D5185m	>46	4	2	4
Tin	ppm	ASTM D5185m	>3	0	<1	3
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	MODER	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

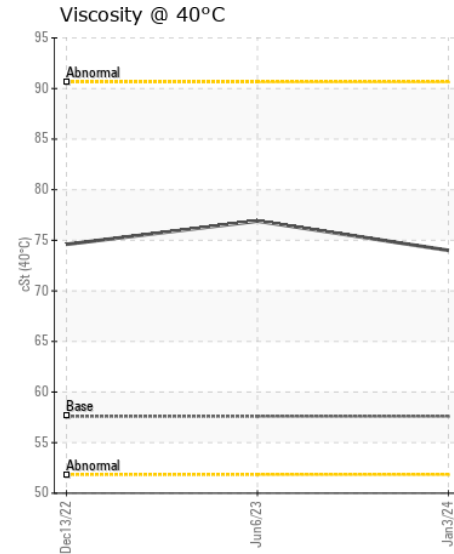
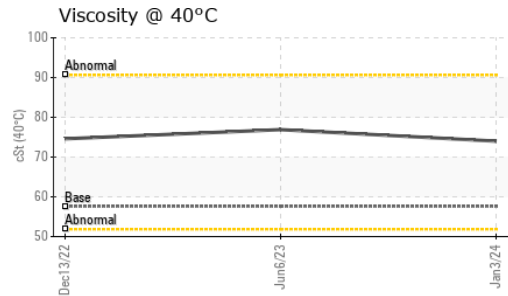
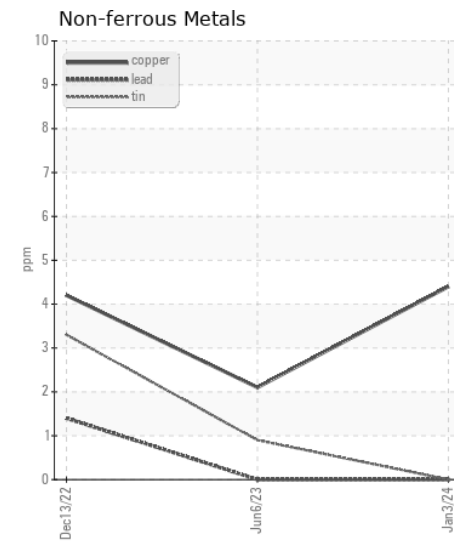
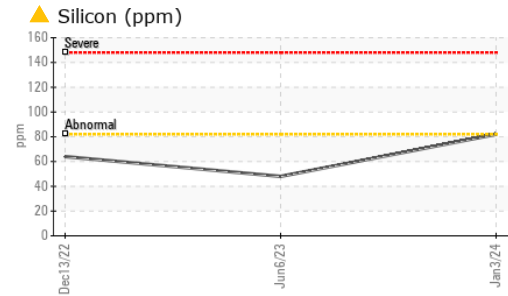
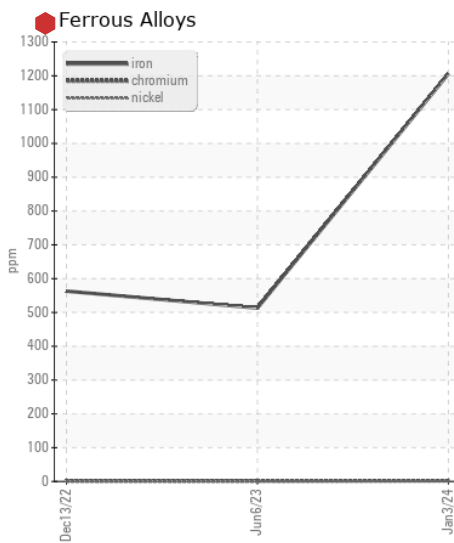
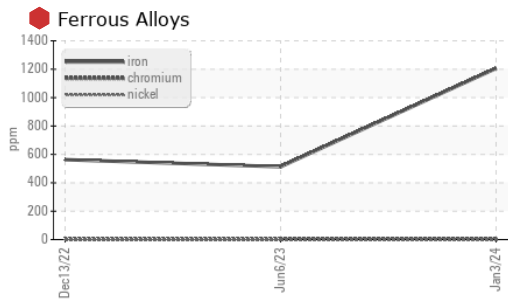
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>82	82	48	64
Potassium	ppm	ASTM D5185m	>20	8	3	6
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		6	3	5
Boron	ppm	ASTM D5185m		62	49	68
Barium	ppm	ASTM D5185m		48	50	76
Molybdenum	ppm	ASTM D5185m		40	27	41
Manganese	ppm	ASTM D5185m		13	6	7
Magnesium	ppm	ASTM D5185m		455	324	521
Calcium	ppm	ASTM D5185m		1609	1125	1701
Phosphorus	ppm	ASTM D5185m		856	649	994
Zinc	ppm	ASTM D5185m		1110	795	1246
Sulfur	ppm	ASTM D5185m		3027	2479	4317
Visc @ 40°C	cSt	ASTM D445	57.6	74.0	76.9	74.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0873975 **Received** : 16 Jan 2024
Lab Number : 06061565 **Diagnosed** : 17 Jan 2024
Unique Number : 10832947 **Diagnostician** : Don Baldridge
Test Package : CONST

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: SHAWN SOUTH
 shawn.south@sherwood.net

Certificate L2367
 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: x:
 F: x: