



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
53.170L []
Component
Left 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		WC0873981	WC0800863	WC0741822
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	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

Iron	ppm	ASTM D5185m	>632	1564	670	369
Chromium	ppm	ASTM D5185m	>3	2	1	2
Nickel	ppm	ASTM D5185m	>3	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>19	2	5	4
Lead	ppm	ASTM D5185m	>6	0	0	1
Copper	ppm	ASTM D5185m	>46	5	3	3
Tin	ppm	ASTM D5185m	>3	0	<1	4
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

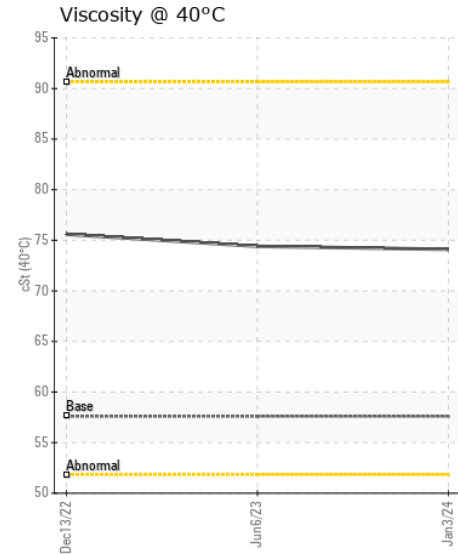
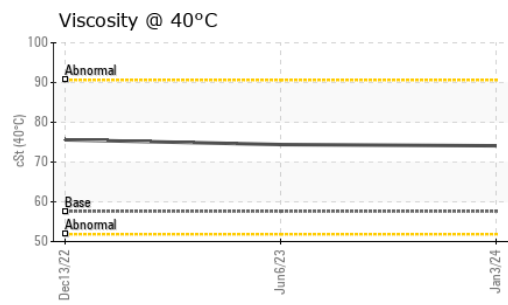
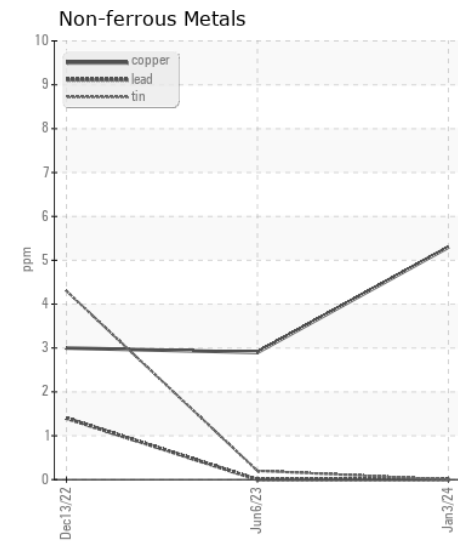
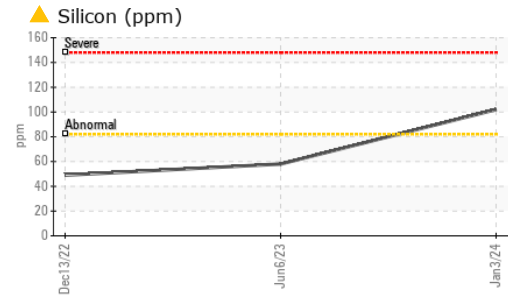
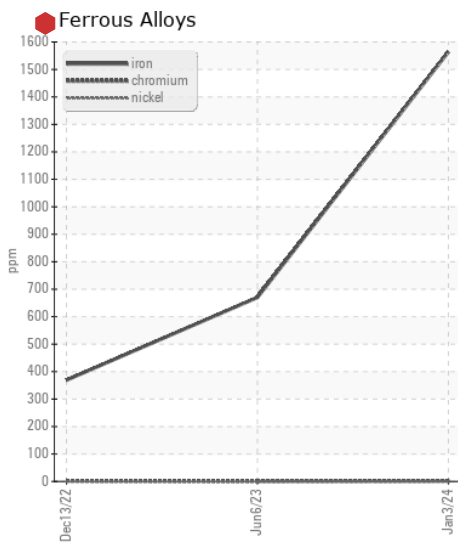
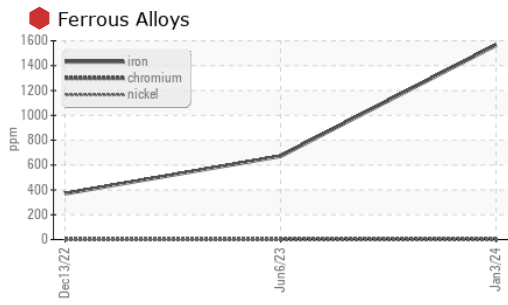
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>82	102	58	49
Potassium	ppm	ASTM D5185m	>20	6	2	6
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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		3	3	5
Boron	ppm	ASTM D5185m		60	48	68
Barium	ppm	ASTM D5185m		52	52	71
Molybdenum	ppm	ASTM D5185m		40	26	40
Manganese	ppm	ASTM D5185m		16	8	5
Magnesium	ppm	ASTM D5185m		467	325	510
Calcium	ppm	ASTM D5185m		1642	1113	1692
Phosphorus	ppm	ASTM D5185m		860	642	987
Zinc	ppm	ASTM D5185m		1069	752	1264
Sulfur	ppm	ASTM D5185m		2978	2557	4259
Visc @ 40°C	cSt	ASTM D445	57.6	74.1	74.4	75.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0873981 **Received** : 16 Jan 2024
Lab Number : 06061572 **Diagnosed** : 17 Jan 2024
Unique Number : 10832954 **Diagnostician** : Don Baldrige
Test Package : CONST

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

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: