



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
COLORADO/443
Machine Id
53.157L [COLORADO^443]
Component
Hydraulic System
Fluid
MOBIL MOBILTRANS AST 30 (9)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0918159	WC0833777	WC0823057
Sample Date		Client Info		08 Apr 2024	16 Nov 2023	14 Sep 2023
Machine Age	hrs	Client Info		1836	1513	1369
Oil Age	hrs	Client Info		323	1513	1369
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Changed	Not Changd
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	6	10	12
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>10	<1	3	2
Copper	ppm	ASTM D5185m	>75	2	3	4
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

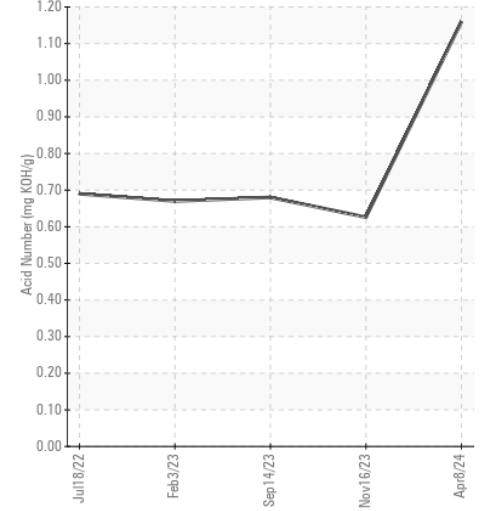
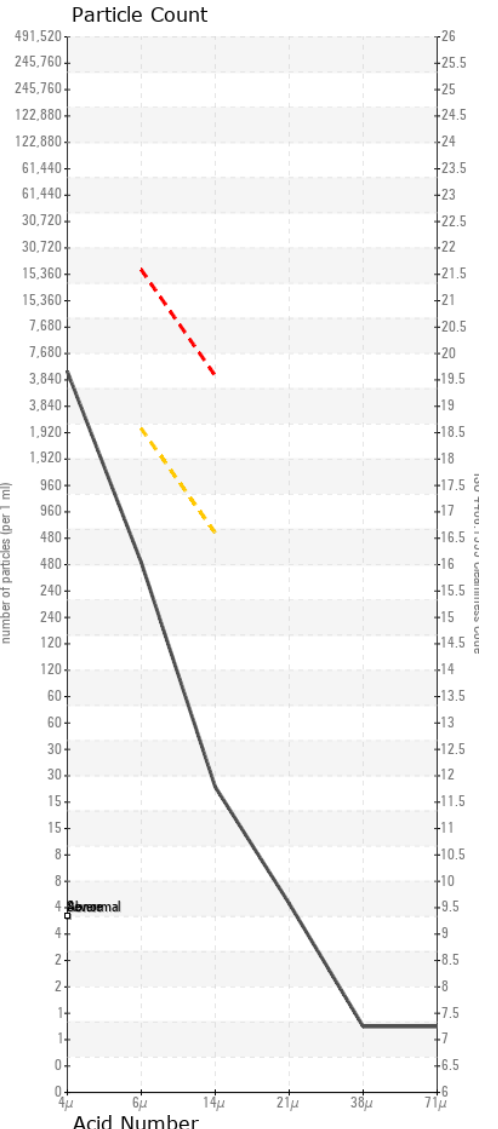
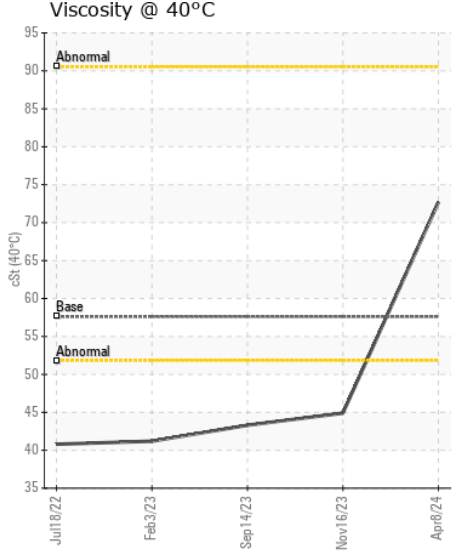
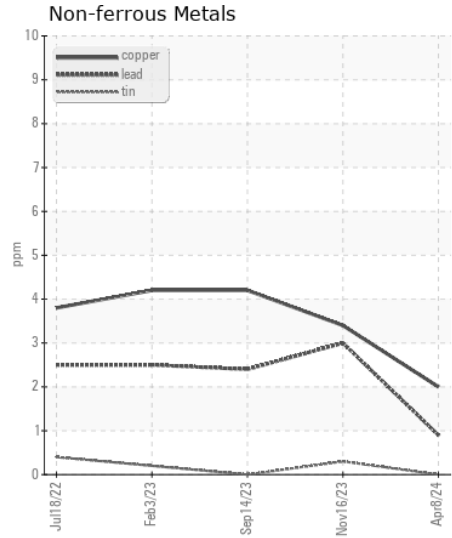
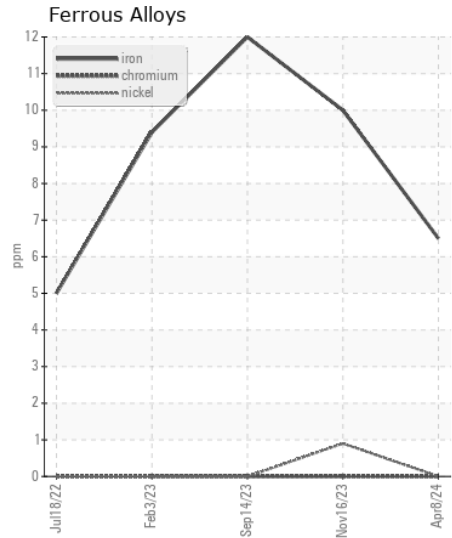
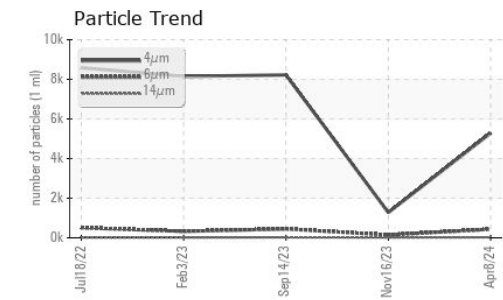
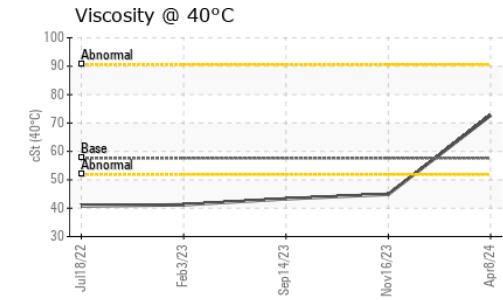
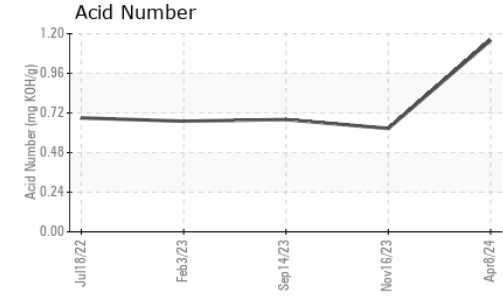
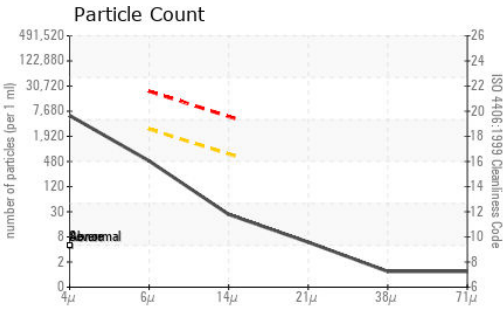
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	3	2	2
Potassium	ppm	ASTM D5185m	>20	7	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		5287	1277	8222
Particles >6µm		ASTM D7647	>2500	434	146	449
Particles >14µm		ASTM D7647	>640	23	10	23
Particles >21µm		ASTM D7647	>160	5	3	6
Particles >38µm		ASTM D7647	>40	1	0	1
Particles >71µm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/16	20/16/12	17/14/10	20/16/12
Silt	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		3	2	1
Boron	ppm	ASTM D5185m		20	4	2
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		12	5	3
Calcium	ppm	ASTM D5185m		1799	564	529
Phosphorus	ppm	ASTM D5185m		779	738	759
Zinc	ppm	ASTM D5185m		893	923	977
Sulfur	ppm	ASTM D5185m		3447	2122	2461
Acid Number (AN)	mg KOH/g	ASTM D8045		1.16	0.626	0.68
Visc @ 40°C	cSt	ASTM D445	57.6	72.7	44.9	43.3



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918159 **Received** : 17 Apr 2024
Lab Number : 06151922 **Tested** : 18 Apr 2024
Unique Number : 10982000 **Diagnosed** : 19 Apr 2024 - Don Baldrige
Test Package : CONST

SHERWOOD CONSTRUCTION CO INC
 3219 WEST MAY ST
 WICHITA, KS
 US 67213
 Contact: BILL ORCUTT
 william.orcutt@wildcat.net
 T: (719)499-6303
 F: x:

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)