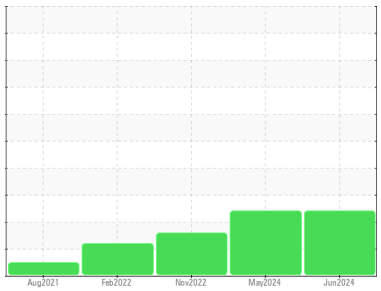
OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
OKLAHOMA/102/EG - OTHER SERVICE
Machine Id
54.104L [OKLAHOMA^102^EG - OTHER SERVICE]
Component
Hydraulic System
Fluid
MOBIL MOBILFLUID 424 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count. (Customer Sample Comment: 1299 hours)

Wear
All component wear rates are normal.

Contamination
Appearance is milky. There is a moderate concentration of water present in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0925210**	WC0864445	WC0741064
Sample Date		Client Info		**10 Jun 2024**	14 May 2024	16 Nov 2022
Machine Age	hrs	Client Info		**1299**	1248	521
Oil Age	hrs	Client Info		**521**	580	232
Oil Changed		Client Info		**N/A**	N/A	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**5**	4	4
Chromium	ppm	ASTM D5185m	>10	**<1**	0	0
Nickel	ppm	ASTM D5185m	>10	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**<1**	0	<1
Aluminum	ppm	ASTM D5185m	>10	**2**	2	<1
Lead	ppm	ASTM D5185m	>10	**<1**	0	0
Copper	ppm	ASTM D5185m	>75	**10**	4	2
Tin	ppm	ASTM D5185m	>10	**0**	0	<1
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	0

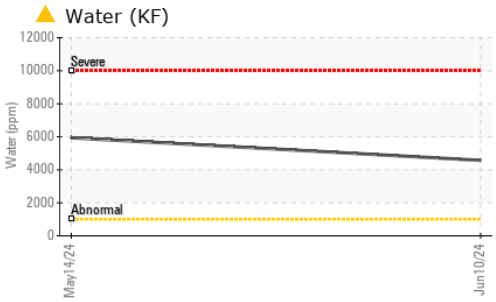
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**26**	34	55
Barium	ppm	ASTM D5185m		**<1**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**11**	0	9
Calcium	ppm	ASTM D5185m		**2510**	2571	1803
Phosphorus	ppm	ASTM D5185m		**1019**	1009	732
Zinc	ppm	ASTM D5185m		**1229**	1205	889
Sulfur	ppm	ASTM D5185m		**5265**	5271	3278

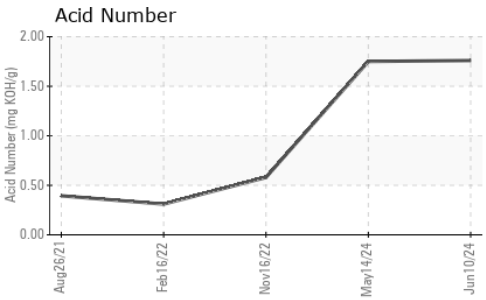
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	**5**	5	5
Sodium	ppm	ASTM D5185m		**4**	2	3
Potassium	ppm	ASTM D5185m	>20	**6**	4	0
Water	%	ASTM D6304	>0.1	▲ **0.457**	▲ 0.594	---
ppm Water	ppm	ASTM D6304	>1000	▲ **4570**	▲ 5940	---

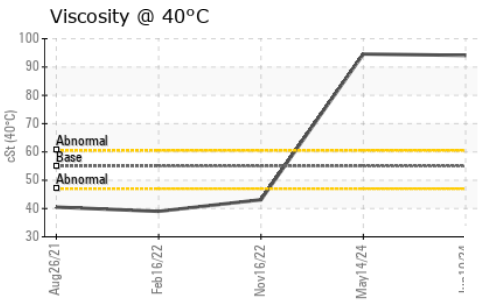
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		**---**	---	18136
Particles >6µm		ASTM D7647	>2500	**---**	---	▲ 5119
Particles >14µm		ASTM D7647	>640	**---**	---	▲ 884
Particles >21µm		ASTM D7647	>160	**---**	---	▲ 281
Particles >38µm		ASTM D7647	>40	**---**	---	13
Particles >71µm		ASTM D7647	>10	**---**	---	1
Oil Cleanliness		ISO 4406 (c)	>--/18/16	**---**	---	▲ 21/20/17

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.76**	1.75	0.58

OIL ANALYSIS REPORT





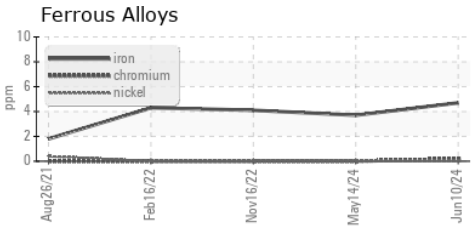


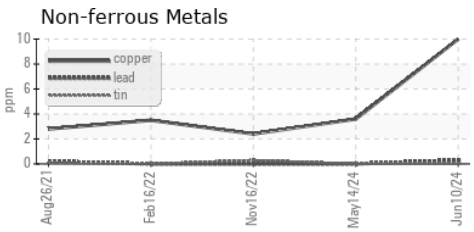
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**MILKY**	HAZY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	**0.2%**	0.2%	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

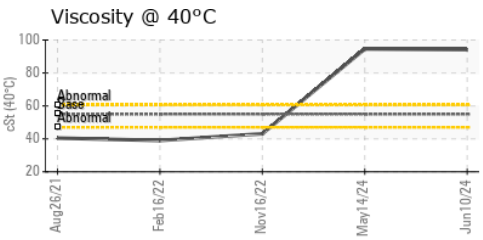
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55	**94.1**	94.6	43.1

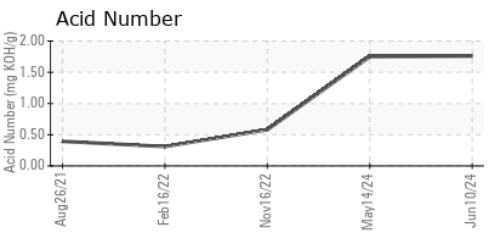
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0925210
Lab Number : 06212290
Unique Number : 11085154
Test Package : CONST (Additional Tests: KF)

Received : 17 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 2024 - Don Baldridge

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)

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Report Id: SHEWIC [WUSCAR] 06212290 (Generated: 06/22/2024 00:13:04) Rev: 1

Submitted By: LOUIS BRESHEARS