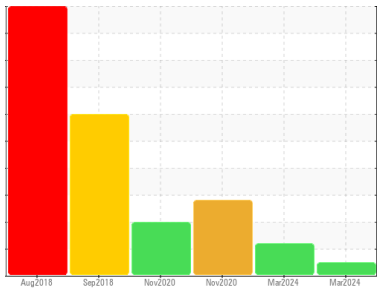
OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL

Area
412
Machine Id
273 PELLETIZER GEARBOX
Component
Main Gearbox
Fluid
MOBIL MOBILGEAR SHC 460 (110 GAL)

DIAGNOSIS

Recommendation
Resample at the next service interval to monitor.

Wear
All component wear rates are normal.

Contamination
The amount and size of particulates present in the system are acceptable.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0912129**	WC0838852	WC0397528
Sample Date		Client Info		**28 Mar 2024**	03 Mar 2024	10 Nov 2020
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	Not Changd	N/A
Sample Status				**NORMAL**	ABNORMAL	SEVERE

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>0.2	**NEG**	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**16**	70	63
Iron	ppm	ASTM D5185m	>200	**26**	93	47
Chromium	ppm	ASTM D5185m	>15	**<1**	<1	<1
Nickel	ppm	ASTM D5185m	>15	**<1**	1	<1
Titanium	ppm	ASTM D5185m		**<1**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**2**	6	0
Lead	ppm	ASTM D5185m	>100	**<1**	<1	1
Copper	ppm	ASTM D5185m	>200	**4**	4	4
Tin	ppm	ASTM D5185m	>25	**<1**	0	0
Antimony	ppm	ASTM D5185m	>5	**---**	---	0
Vanadium	ppm	ASTM D5185m		**<1**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

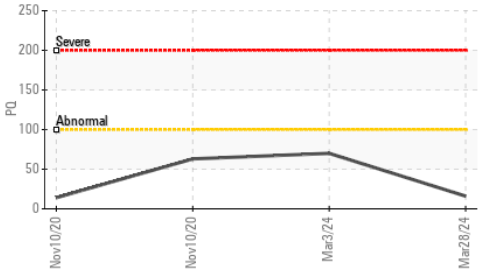
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	<1
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	<1	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**1**	0	<1
Calcium	ppm	ASTM D5185m		**6**	4	3
Phosphorus	ppm	ASTM D5185m		**343**	435	375
Zinc	ppm	ASTM D5185m		**19**	7	0
Sulfur	ppm	ASTM D5185m		**2047**	2343	1686

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**13**	29	21
Sodium	ppm	ASTM D5185m		**1**	<1	2
Potassium	ppm	ASTM D5185m	>20	**1**	1	<1

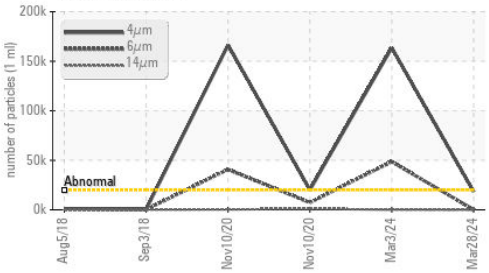
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	**18384**	▲ 163522	▲ 166363
Particles >6µm		ASTM D7647	>5000	**96**	▲ 48587	▲ 40792
Particles >14µm		ASTM D7647	>640	**10**	153	345
Particles >21µm		ASTM D7647	>160	**4**	19	92
Particles >38µm		ASTM D7647	>40	**0**	1	7
Particles >71µm		ASTM D7647	>10	**0**	0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	**21/14/10**	▲ 25/23/14	▲ 25/23/16

OIL ANALYSIS REPORT

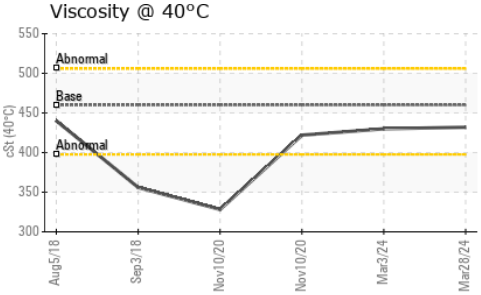
PQ



Particle Trend



Viscosity @ 40°C

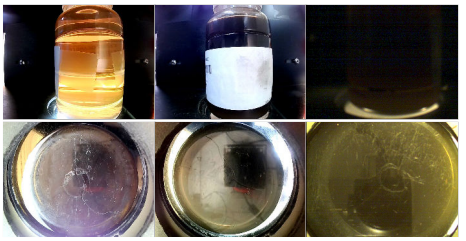


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.33**	1.32	1.137

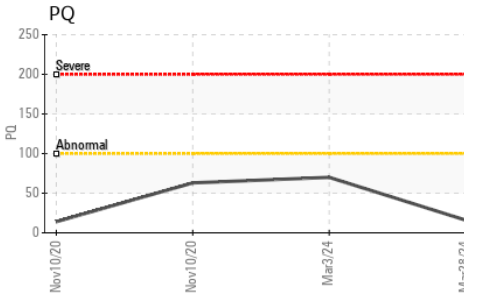
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	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
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	460	**432**	430	422

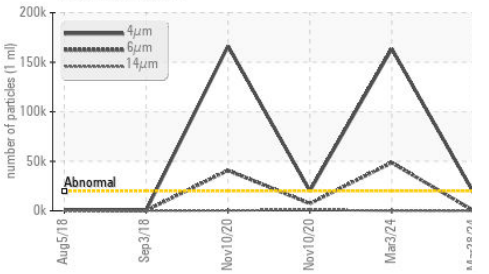
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



PQ

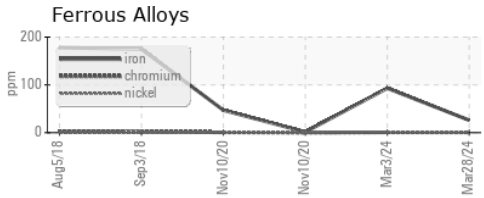


Particle Trend

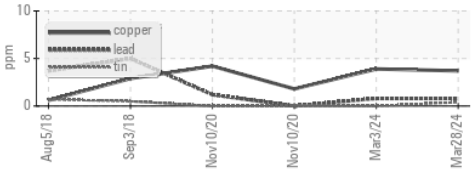


GRAPHS

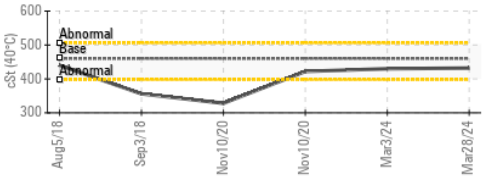
Ferrous Alloys



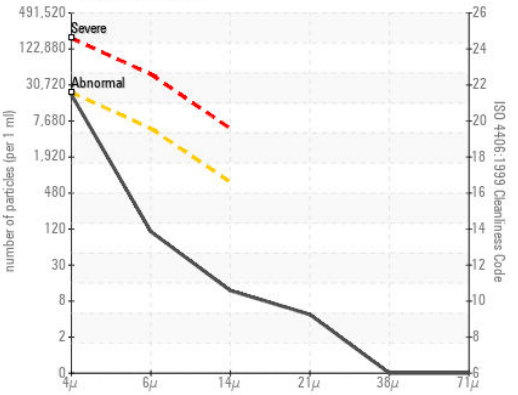
Non-ferrous Metals



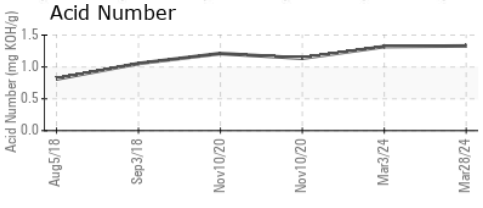
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0912129
Lab Number : 06138436
Unique Number : 10963244
Test Package : IND 2 (Additional Tests: PQ, PrtCount)

Received : 04 Apr 2024
Tested : 09 Apr 2024
Diagnosed : 09 Apr 2024 - Angela Borella

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)

BRIDGESTONE FIRESTONE - DES MOINES
4600 NW 2ND AVE
DES MOINES, IA
US 50313
Contact: SCOTT CARTER
CarterScottA@FirestoneAg.com
T: x:
F: x:

Report Id: BRIDES [WUSCAR] 06138436 (Generated: 04/09/2024 08:09:14) Rev: 1
Contact/Location: SCOTT CARTER - BRIDES