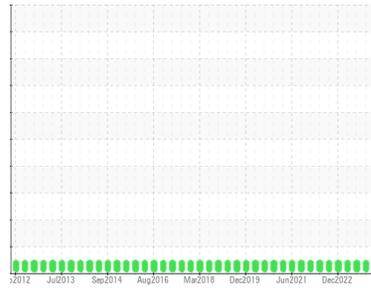




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
CURING/PRESS ABCD
 Machine Id
101816 Right Side B
 Component
Right Hydraulic System
 Fluid
ESSO TERESSO ISO 68 (9000 LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is 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	WC0940145	WC0889299	WC0855081
Sample Date	Client Info	11 Jun 2024	13 Feb 2024	05 Dec 2023
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.05	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >40	<1	<1	<1
Chromium	ppm ASTM D5185(m) >4	0	<1	<1
Nickel	ppm ASTM D5185(m) >20	0	<1	<1
Titanium	ppm ASTM D5185(m)	0	0	0
Silver	ppm ASTM D5185(m)	0	0	<1
Aluminum	ppm ASTM D5185(m) >4	0	<1	<1
Lead	ppm ASTM D5185(m) >10	0	<1	<1
Copper	ppm ASTM D5185(m) >60	<1	<1	<1
Tin	ppm ASTM D5185(m) >4	0	0	0
Antimony	ppm ASTM D5185(m)	0	0	0
Vanadium	ppm ASTM D5185(m)	0	0	0
Beryllium	ppm ASTM D5185(m)	0	0	0
Cadmium	ppm ASTM D5185(m)	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 4.5	0	0	<1
Barium	ppm ASTM D5185(m) 0.4	0	0	<1
Molybdenum	ppm ASTM D5185(m) 0	0	0	0
Manganese	ppm ASTM D5185(m)	0	0	0
Magnesium	ppm ASTM D5185(m) 0	<1	<1	0
Calcium	ppm ASTM D5185(m) 0	0	<1	<1
Phosphorus	ppm ASTM D5185(m) 0.7	<1	<1	<1
Zinc	ppm ASTM D5185(m) 0	2	2	2
Sulfur	ppm ASTM D5185(m) 1315	5491	5794	5559
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >20	4	5	5
Sodium	ppm ASTM D5185(m)	0	0	0
Potassium	ppm ASTM D5185(m) >20	0	<1	0

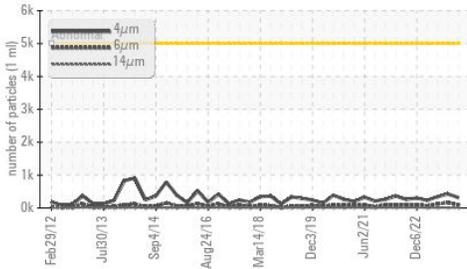
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	311	425	344
Particles >6µm	ASTM D7647 >1300	83	160	122
Particles >14µm	ASTM D7647 >160	8	13	11
Particles >21µm	ASTM D7647 >40	2	3	3
Particles >38µm	ASTM D7647 >10	0	0	0
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	15/14/10	16/14/11	16/14/11

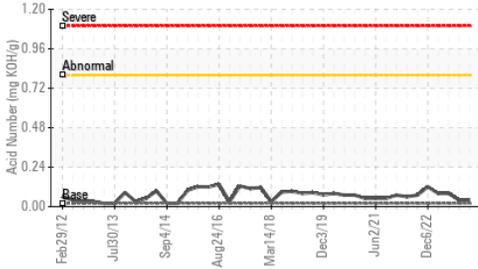


OIL ANALYSIS REPORT

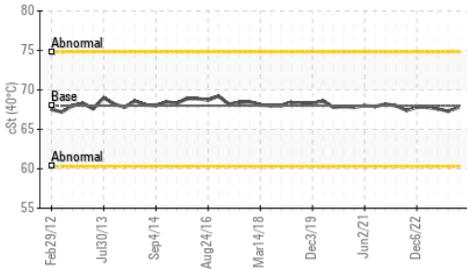
Particle Trend



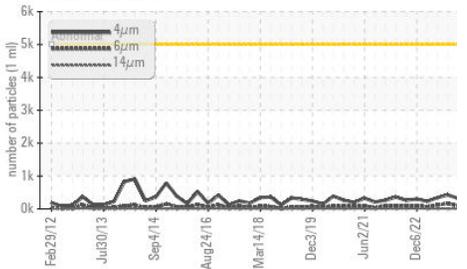
Acid Number



Viscosity @ 40°C



Particle Trend



FLUID DEGRADATION method limit/base current history1 history2

Acid Number (AN) mg KOH/g ASTM D974* 0.02 **0.04** 0.04 0.08

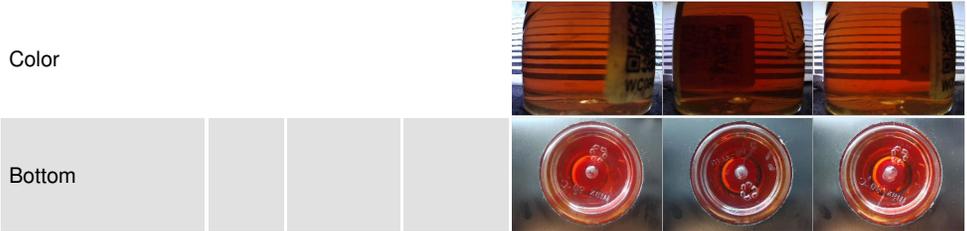
VISUAL method limit/base current history1 history2

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*	>0.05	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES method limit/base current history1 history2

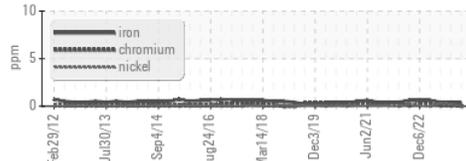
Visc @ 40°C cSt ASTM D7279(m) 68 **67.8** 67.3 67.6

SAMPLE IMAGES method limit/base current history1 history2

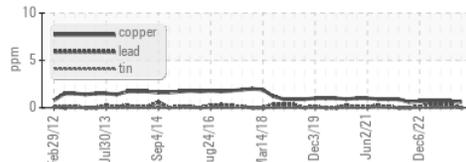


GRAPHS

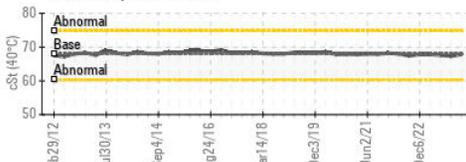
Ferrous Alloys



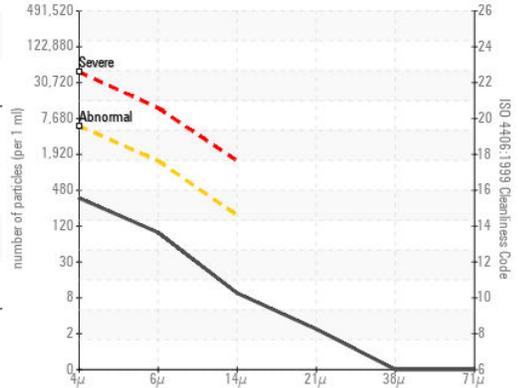
Non-ferrous Metals



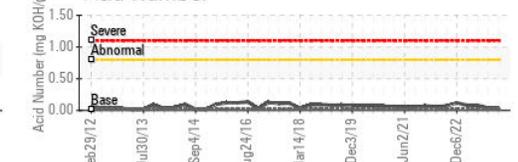
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0940145 **Received** : 14 Jun 2024
Lab Number : **02641981** **Tested** : 17 Jun 2024
Unique Number : 5799520 **Diagnosed** : 17 Jun 2024 - Wes Davis
Test Package : IND 2

MICHELIN TIRE
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WATERVILLE, NS
CA B0P 1V0
Contact: Alan Davies
alan.davies@michelin.com
T: (902)534-3590
F: x:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
Validity of results and interpretation are based on the sample and information as supplied.