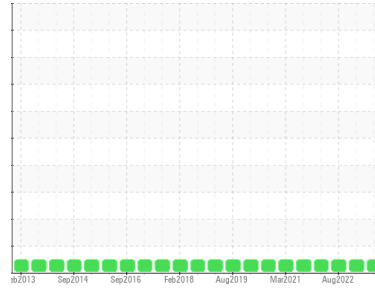




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
[603865970 SDR]
 Machine Id
L-3 CARMEL SML ROLL (S/N 20048789)
 Component
Gearbox
 Fluid
GEAR OIL ISO 150 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

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	WC0562243	WC0562098	WC0605668
Sample Date	Client Info	02 Aug 2023	18 Feb 2023	20 Aug 2022
Machine Age	hrs Client Info	0	0	0
Oil Age	hrs Client Info	0	0	0
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>200	2	3	11
Chromium ppm ASTM D5185m	>15	0	0	<1
Nickel ppm ASTM D5185m	>15	0	<1	<1
Titanium ppm ASTM D5185m		0	0	0
Silver ppm ASTM D5185m		0	0	0
Aluminum ppm ASTM D5185m	>25	<1	<1	0
Lead ppm ASTM D5185m	>100	0	0	<1
Copper ppm ASTM D5185m	>200	0	0	0
Tin ppm ASTM D5185m	>25	0	<1	1
Vanadium ppm ASTM D5185m		0	0	<1
Cadmium ppm ASTM D5185m		0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	50	0	0	1
Barium ppm ASTM D5185m	15	0	0	0
Molybdenum ppm ASTM D5185m	15	0	0	0
Manganese ppm ASTM D5185m		0	<1	<1
Magnesium ppm ASTM D5185m	50	0	<1	2
Calcium ppm ASTM D5185m	50	0	<1	0
Phosphorus ppm ASTM D5185m	350	295	197	177
Zinc ppm ASTM D5185m	100	0	0	0
Sulfur ppm ASTM D5185m	12500	2327	1607	1654

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	8	5	15
Sodium ppm ASTM D5185m		0	0	2
Potassium ppm ASTM D5185m	>20	<1	<1	5

FLUID DEGRADATION

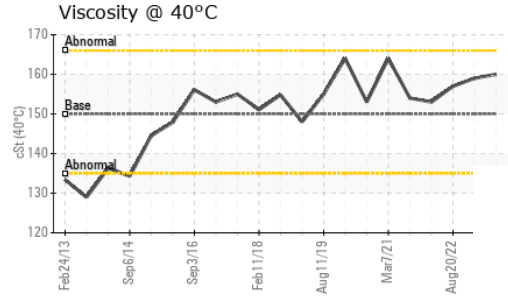
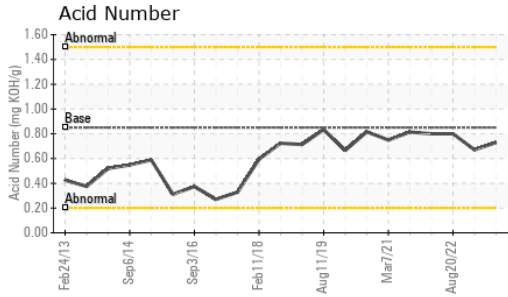
method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.85	0.73	0.67	0.80

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	LIGHT
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	0.2%
Free Water scalar *Visual		NEG	NEG	NEG

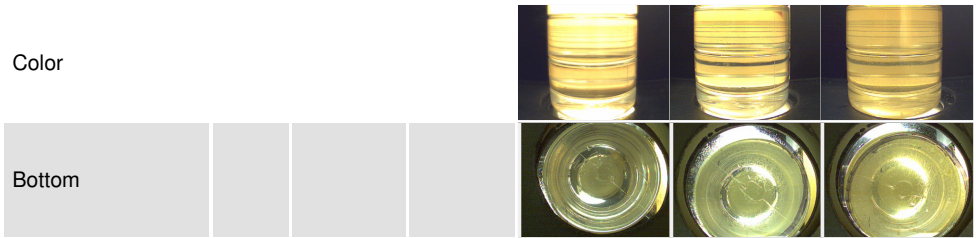


OIL ANALYSIS REPORT

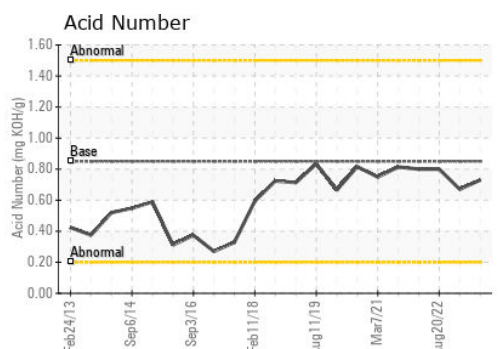
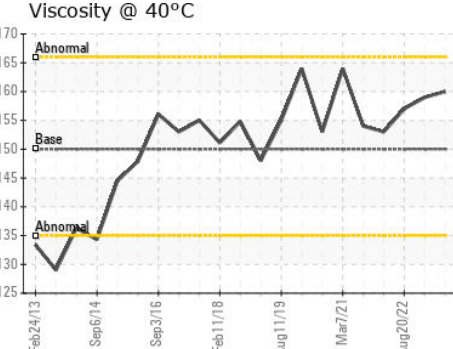
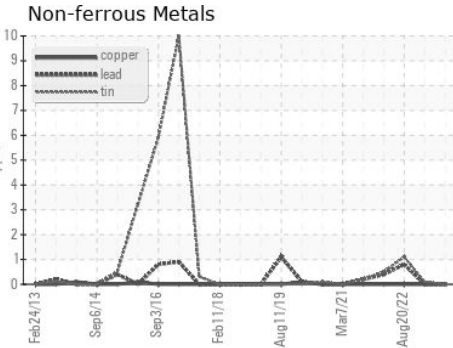
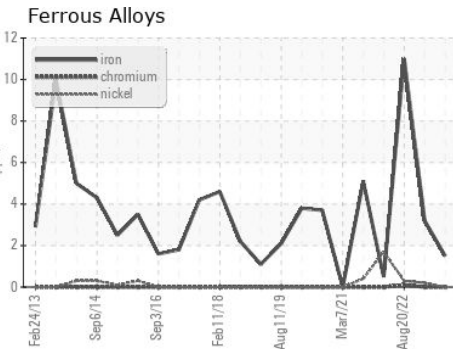


FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	160	159	157

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0562243 **Received** : 15 Aug 2023
Lab Number : **05924943** **Diagnosed** : 16 Aug 2023
Unique Number : 10604890 **Diagnostician** : Jonathan Hester
Test Package : IND 2

MARS CHOCOLATE
 2019 NORTH OAK PARK
 CHICAGO, IL
 US 60707
 Contact: TONY FIORE
 tony.fiore@effem.com
 T: (773)745-2279
 F:

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)