



Machine Id
MV FRAN C
Component
Port Reduction Gear
Fluid
SHELL ROTELLA T 15W40 (6 GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

The copper level is abnormal. Bearing and/or bushing wear is indicated.

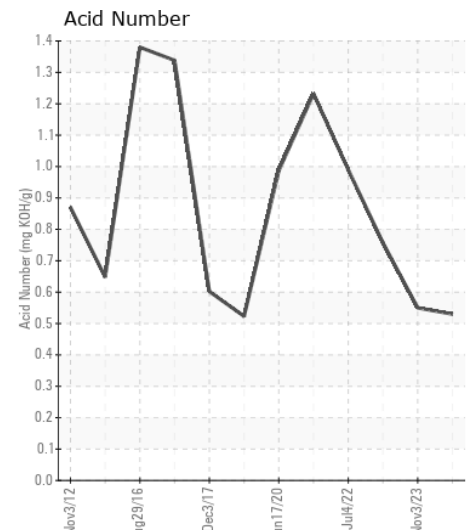
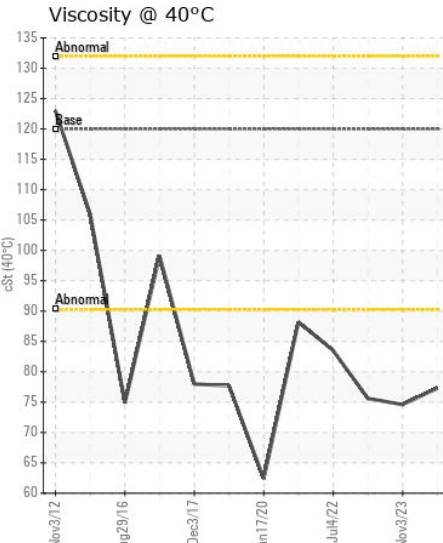
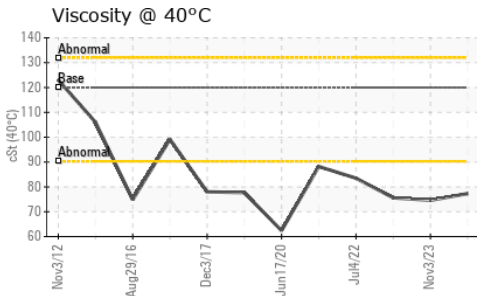
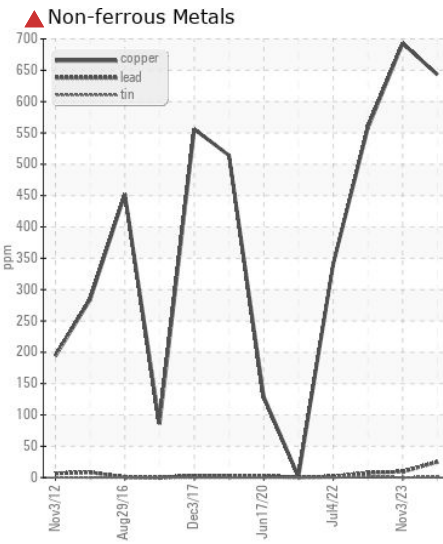
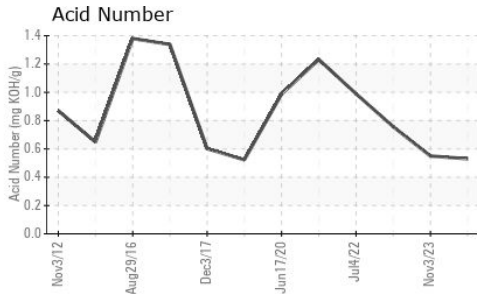
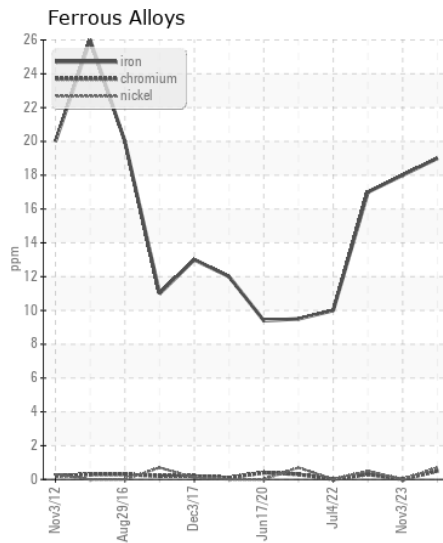
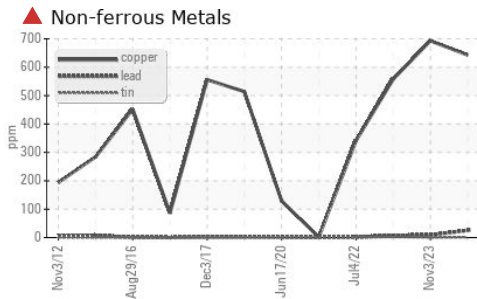
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The AN level is acceptable for this fluid.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		MW0042016	MW0045709	MW0036731
Sample Date		Client Info		05 Apr 2024	03 Nov 2023	05 Jul 2023
Machine Age	hrs	Client Info		10727	9730	9075
Oil Age	hrs	Client Info		2000	1000	500
Filter Age	hrs	Client Info		2000	1000	500
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>150	19	18	17
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
Nickel	ppm	ASTM D5185m	>10	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		<1	0	<1
Aluminum	ppm	ASTM D5185m	>25	2	2	7
Lead	ppm	ASTM D5185m	>100	25	9	8
Copper	ppm	ASTM D5185m	>50	▲ 643	▲ 693	▲ 558
Tin	ppm	ASTM D5185m	>10	1	0	2
Vanadium	ppm	ASTM D5185m		<1	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	7	7	8
Potassium	ppm	ASTM D5185m	>20	2	1	8
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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
Sodium	ppm	ASTM D5185m		1	2	3
Boron	ppm	ASTM D5185m	316	291	381	342
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	1.2	98	109	100
Manganese	ppm	ASTM D5185m		<1	0	2
Magnesium	ppm	ASTM D5185m	24	622	617	653
Calcium	ppm	ASTM D5185m	2292	1568	1513	1470
Phosphorus	ppm	ASTM D5185m	1064	894	855	875
Zinc	ppm	ASTM D5185m	1160	1072	1020	1005
Sulfur	ppm	ASTM D5185m	4996	3513	3086	3531
Acid Number (AN)	mg KOH/g	ASTM D8045		0.53	0.55	0.757
Visc @ 40°C	cSt	ASTM D445	120.	77.3	74.6	75.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MW0042016
Lab Number : 06147506
Unique Number : 10977584
Test Package : MAR 2

Received : 12 Apr 2024
Tested : 15 Apr 2024
Diagnosed : 16 Apr 2024 - Don Baldrige

C & B MARINE
 50 E RIVERCENTER BLVD, SUITE 1180
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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)