MOB II

WEAR CHECK

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Area
WQ
Machine Id
DODGE 00223
Component
Gearbox
Fluid
GEAR OIL ISO 220 (1 GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system.
We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

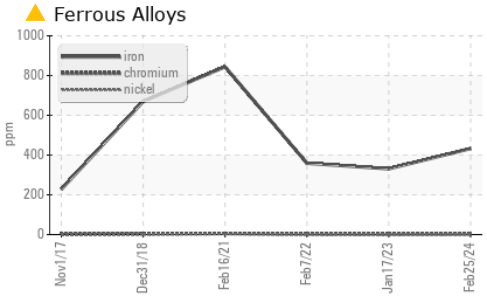
CONTAMINATION

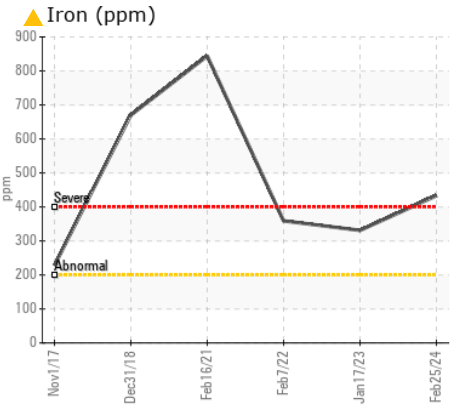
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

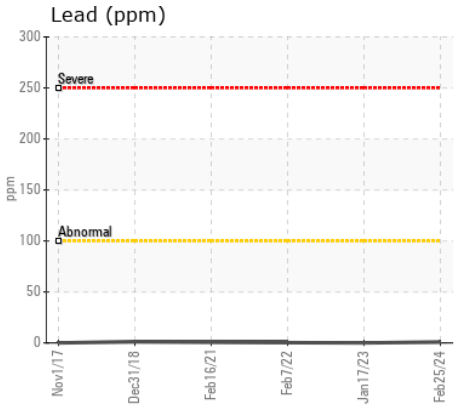
FLUID CONDITION

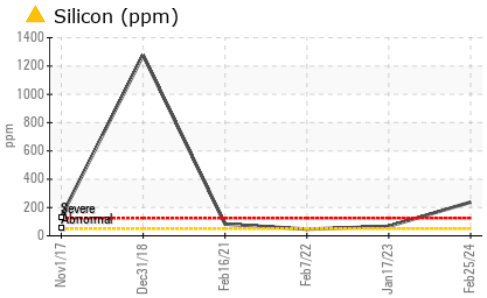
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

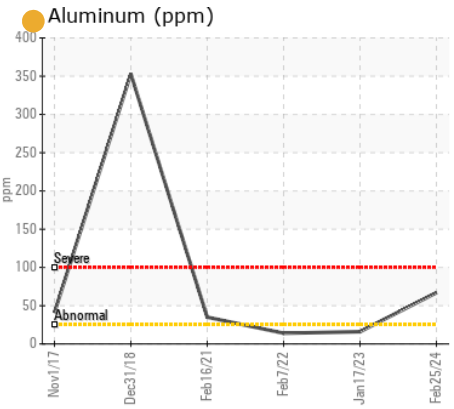
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0721334	WC0570397	WC0524334
Sample Date		Client Info		25 Feb 2024	17 Jan 2023	07 Feb 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>200	▲ 433	▲ 331	▲ 359
Chromium	ppm	ASTM D5185m	>15	2	1	2
Nickel	ppm	ASTM D5185m	>15	<1	0	<1
Titanium	ppm	ASTM D5185m		4	1	<1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>25	● 67	● 16	14
Lead	ppm	ASTM D5185m	>100	1	0	<1
Copper	ppm	ASTM D5185m	>200	1	<1	1
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>50	▲ 238	▲ 67	47
Potassium	ppm	ASTM D5185m	>20	28	6	4
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	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
Sodium	ppm	ASTM D5185m		17	2	2
Boron	ppm	ASTM D5185m	50	10	9	5
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	<1	<1	<1
Manganese	ppm	ASTM D5185m		5	3	3
Magnesium	ppm	ASTM D5185m	50	12	4	5
Calcium	ppm	ASTM D5185m	50	40	17	15
Phosphorus	ppm	ASTM D5185m	350	186	159	181
Zinc	ppm	ASTM D5185m	100	0	13	2
Sulfur	ppm	ASTM D5185m	12500	9446	13591	13556
Acid Number (AN)	mg KOH/g	ASTM D8045	0.85	0.44	0.40	0.32
Visc @ 40°C	cSt	ASTM D445	220	● 155.4	193	204

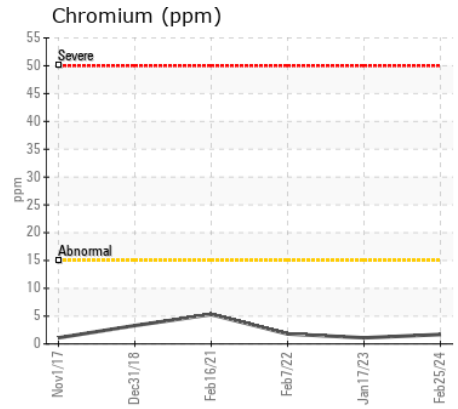


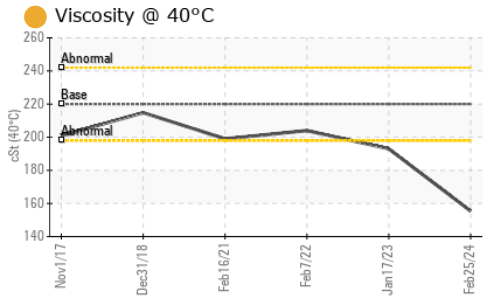


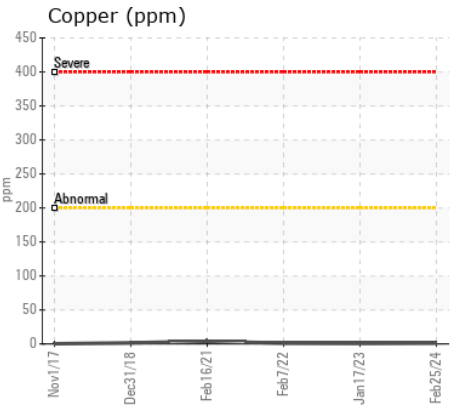


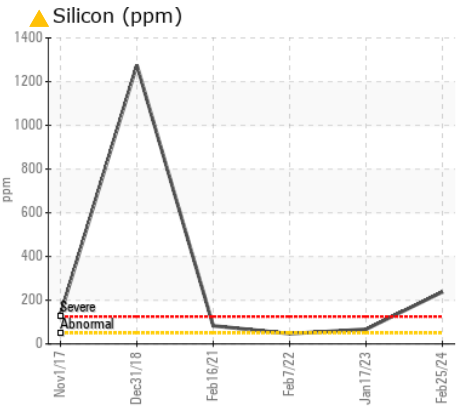


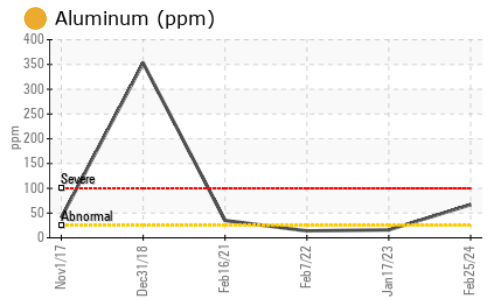


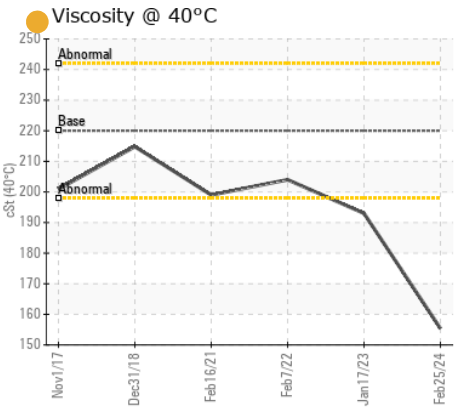


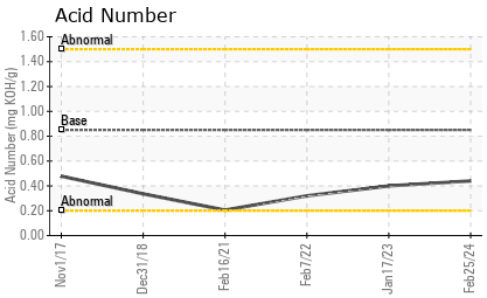


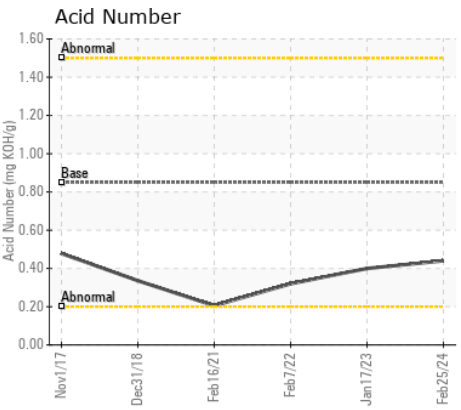












Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0721334
Lab Number : 06100260
Unique Number : 10898490
Test Package : MOB 2

Received : 26 Feb 2024
Tested : 01 Mar 2024
Diagnosed : 01 Mar 2024 - Jonathan Hester

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)

S.M. LORUSSO & SONS
221 NORFOLK ST.
WALPOLE, MA
US 02081
Contact: PAUL BECKMAN
pbeckman@smlorusso.com
T: (508)668-2603
F: (508)660-0232