OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id
MH-17
Component
Front Right Planetary
Fluid
GEAR OIL SAE 80W90 (--- GAL)

DIAGNOSIS

▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

▲ Wear

Gear wear is indicated. All other 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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0103202**	---	---
Sample Date		Client Info		**15 Feb 2024**	---	---
Machine Age	yrs	Client Info		**0**	---	---
Oil Age	yrs	Client Info		**1**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	▲ **757**	---	---
Chromium	ppm	ASTM D5185m	>10	**8**	---	---
Nickel	ppm	ASTM D5185m	>10	**2**	---	---
Titanium	ppm	ASTM D5185m		**1**	---	---
Silver	ppm	ASTM D5185m		**<1**	---	---
Aluminum	ppm	ASTM D5185m	>25	**2**	---	---
Lead	ppm	ASTM D5185m	>25	**1**	---	---
Copper	ppm	ASTM D5185m	>75	**35**	---	---
Tin	ppm	ASTM D5185m	>10	**0**	---	---
Vanadium	ppm	ASTM D5185m		**<1**	---	---
Cadmium	ppm	ASTM D5185m		**<1**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	400	**11**	---	---
Barium	ppm	ASTM D5185m	200	**330**	---	---
Molybdenum	ppm	ASTM D5185m	12	**<1**	---	---
Manganese	ppm	ASTM D5185m		**8**	---	---
Magnesium	ppm	ASTM D5185m	12	**4**	---	---
Calcium	ppm	ASTM D5185m	150	**11**	---	---
Phosphorus	ppm	ASTM D5185m	1650	**1159**	---	---
Zinc	ppm	ASTM D5185m	125	**46**	---	---
Sulfur	ppm	ASTM D5185m	22500	**34414**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**11**	---	---
Sodium	ppm	ASTM D5185m	>170	**1**	---	---
Potassium	ppm	ASTM D5185m	>20	**4**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	2.00	**1.20**	---	---

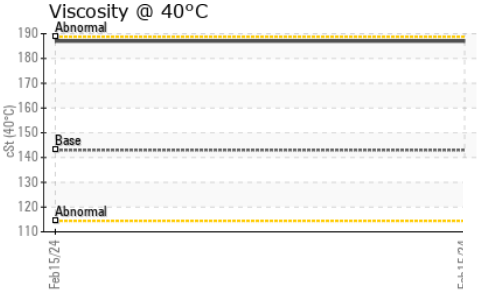
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Ferrous Alloys

Acid Number

Viscosity @ 40°C



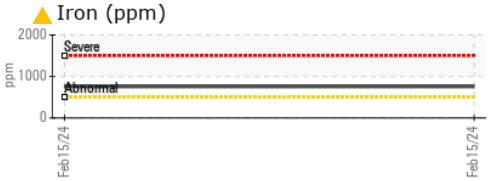
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**MODER**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**NONE**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual	>0.2	**NEG**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	143	**187**	---	---

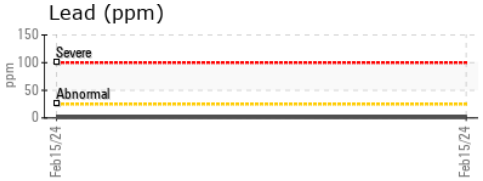
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

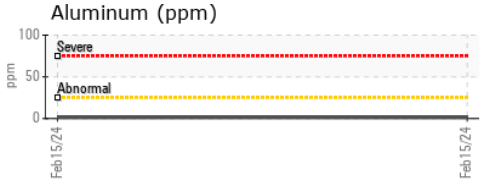
Iron (ppm)



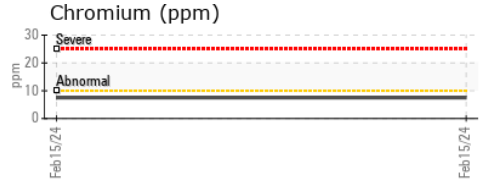
Lead (ppm)



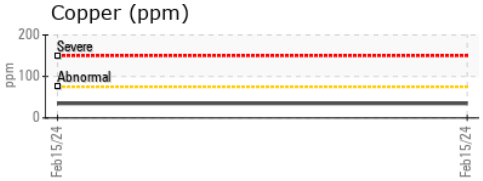
Aluminum (ppm)



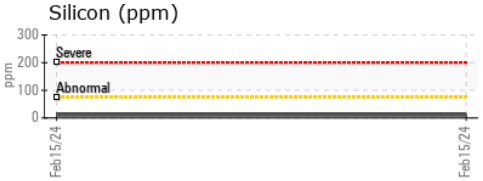
Chromium (ppm)



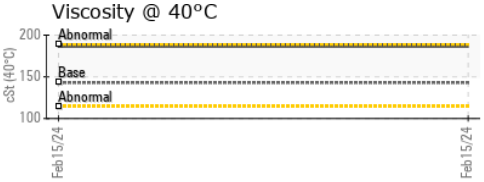
Copper (ppm)



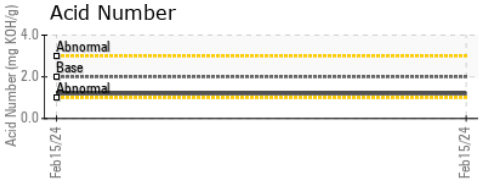
Silicon (ppm)



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0103202
Lab Number : 06092058
Unique Number : 10884911
Test Package : MOB 2

Received : 16 Feb 2024
Tested : 20 Feb 2024
Diagnosed : 20 Feb 2024 - Don Baldridge

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)

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