



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**MRC-320**  
 Component  
**Compressor**  
 Fluid  
**{not provided} (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO60001964</b>	TO60001933	TO60001729
Sample Date		Client Info		<b>10 Jan 2024</b>	02 Dec 2023	04 Nov 2023
Machine Age	hrs	Client Info		<b>5730</b>	5044	4684
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Filter Changed		Client Info		<b>N/A</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m		<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

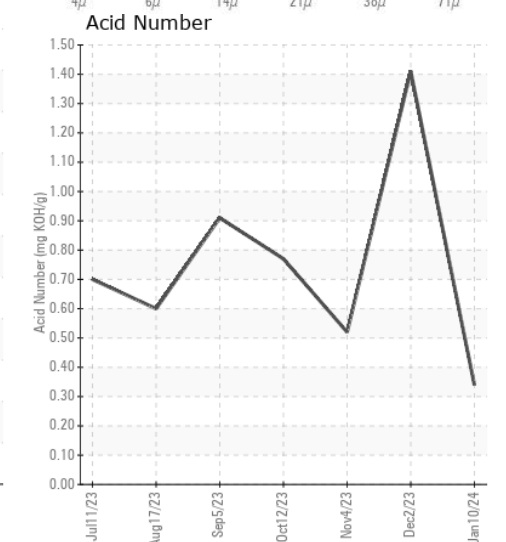
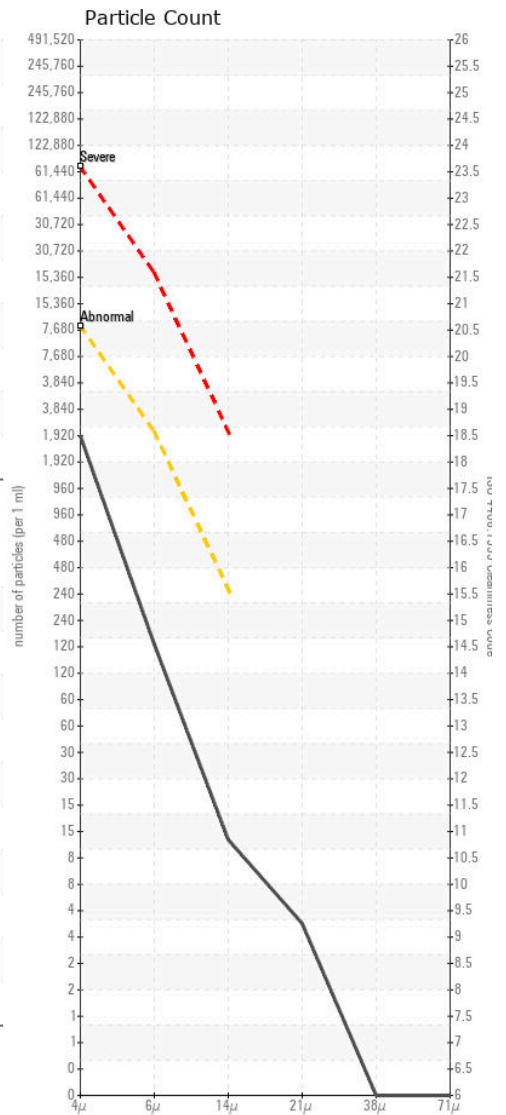
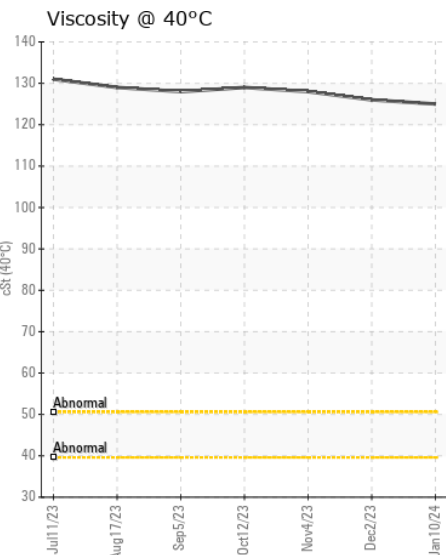
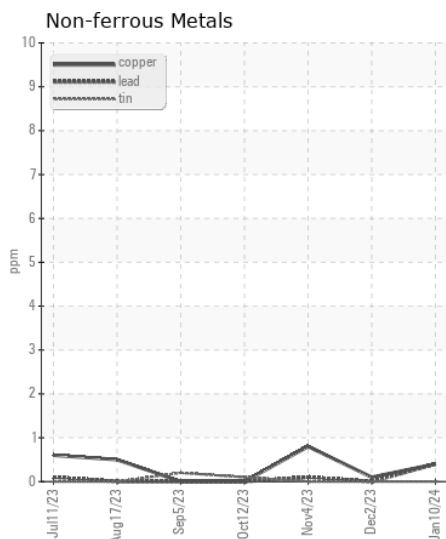
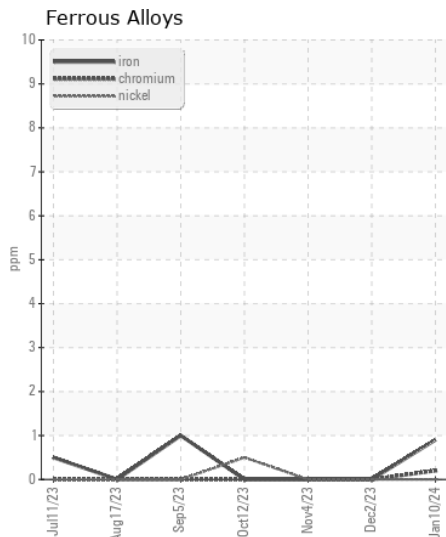
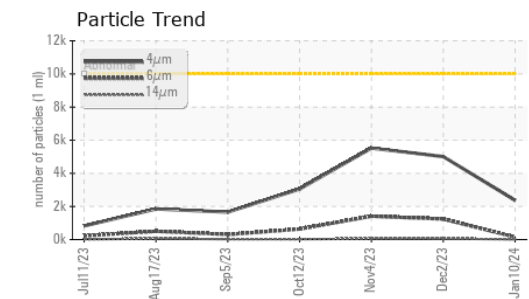
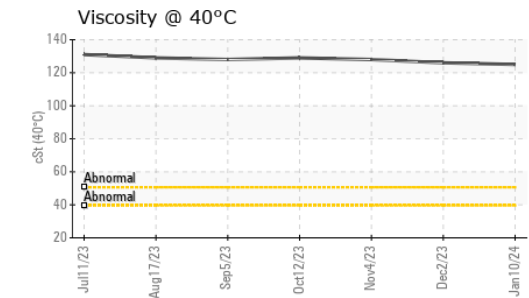
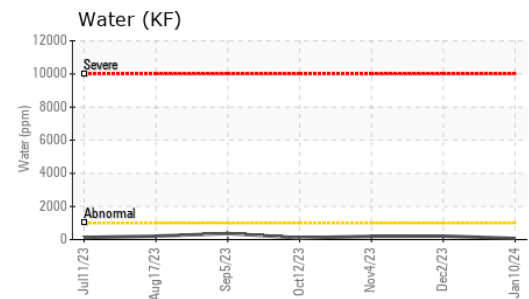
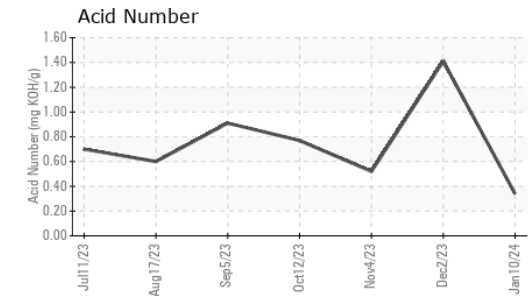
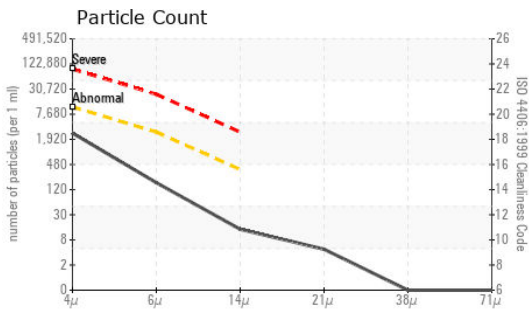
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>8</b>	5	4
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	1
Water	%	ASTM D6304	>0.1	<b>0.006</b>	0.021	0.019
ppm Water	ppm	ASTM D6304	>1000	<b>67</b>	211	199.0
Particles >4µm		ASTM D7647	>10000	<b>2371</b>	5010	5522
Particles >6µm		ASTM D7647	>2500	<b>155</b>	1241	1413
Particles >14µm		ASTM D7647	>320	<b>12</b>	55	53
Particles >21µm		ASTM D7647	>80	<b>4</b>	7	10
Particles >38µm		ASTM D7647	>20	<b>0</b>	0	1
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>18/14/11</b>	20/17/13	20/18/13
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	2	3
Boron	ppm	ASTM D5185m		<b>109</b>	106	97
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185m		<b>8</b>	8	10
Calcium	ppm	ASTM D5185m		<b>1196</b>	1252	1279
Phosphorus	ppm	ASTM D5185m		<b>313</b>	286	315
Zinc	ppm	ASTM D5185m		<b>271</b>	292	336
Sulfur	ppm	ASTM D5185m		<b>3250</b>	2542	2610
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.34</b>	1.41	0.52
Visc @ 40°C	cSt	ASTM D445		<b>125</b>	126	128
Visc @ 100°C	cSt	ASTM D445		<b>13.2</b>	13.1	13.3
Viscosity Index (VI)	Scale	ASTM D2270		<b>99</b>	97	95



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO60001964 **Received** : 18 Jan 2024  
**Lab Number** : 06065055 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 10836437 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, PrtCount, VI )

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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