



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

Area  
**GEORGE N**  
Machine Id  
**[GEORGE N] 011 571099-11**  
Component  
**Hydraulic System**  
Fluid  
**NEPTUNE (--- GAL)**

**RECOMMENDATION**

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>MW0072169</b>	MW0060189	MW0060072
Sample Date		Client Info		<b>01 Jul 2024</b>	01 Jan 2024	01 Dec 2023
Machine Age	hrs	Client Info		<b>0</b>	0	0
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>Not Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>Not Changed</b>	N/A	Changed
Sample Status				<b>ABNORMAL</b>	ATTENTION	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	<b>2</b>	2	2
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>1</b>	2	2
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>20	<b>4</b>	4	5
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

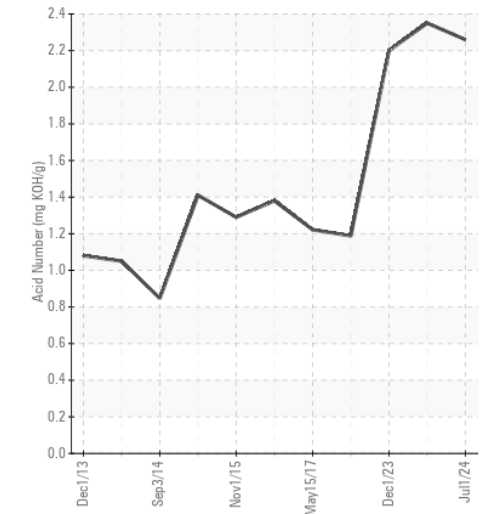
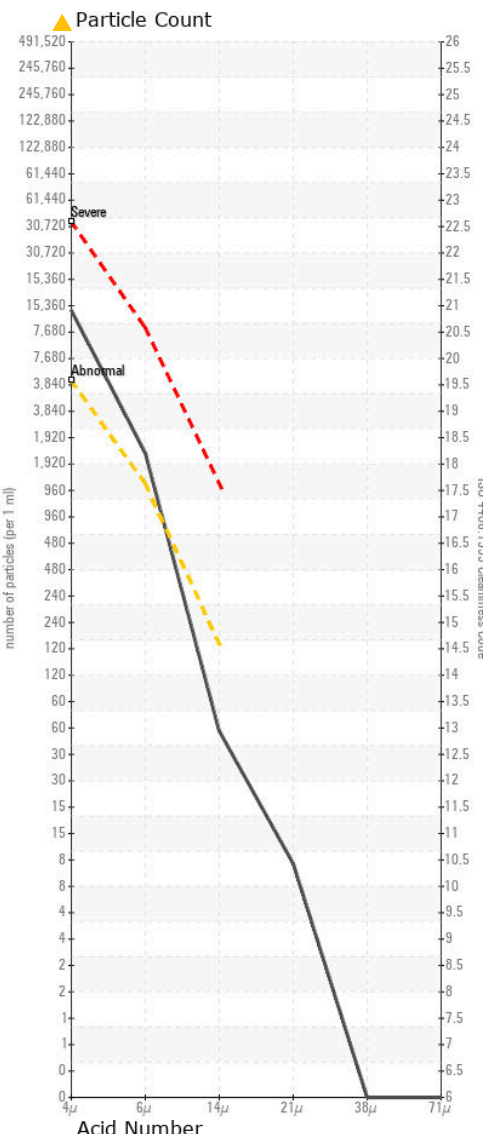
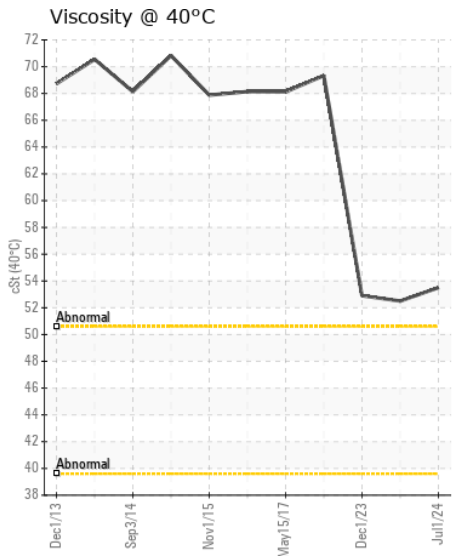
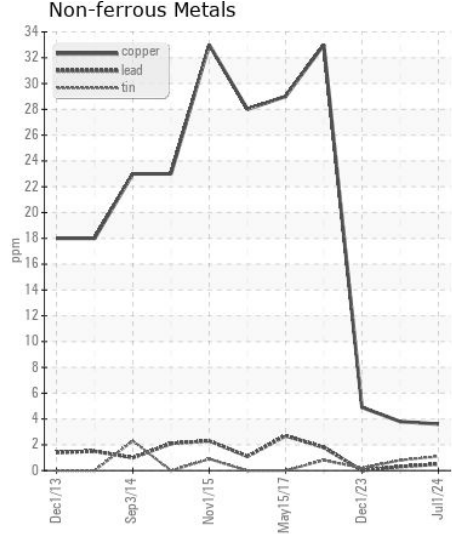
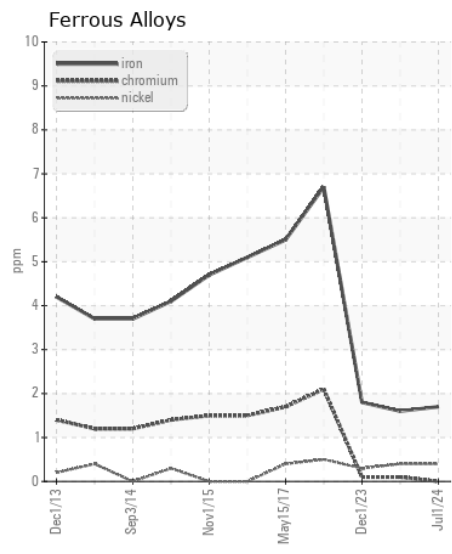
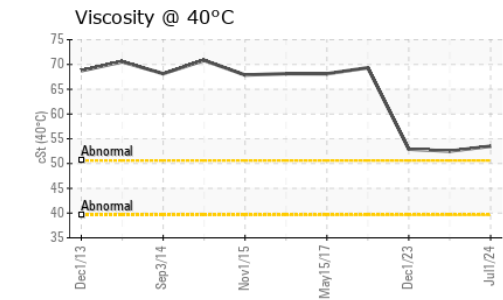
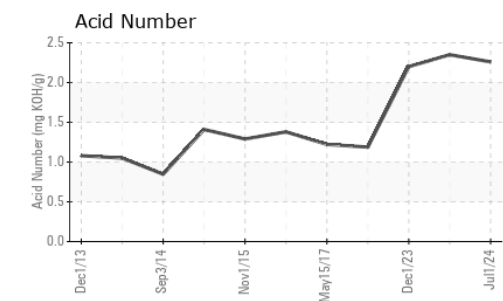
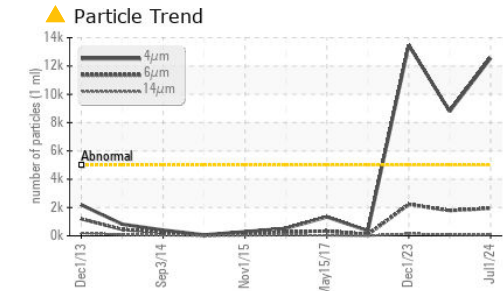
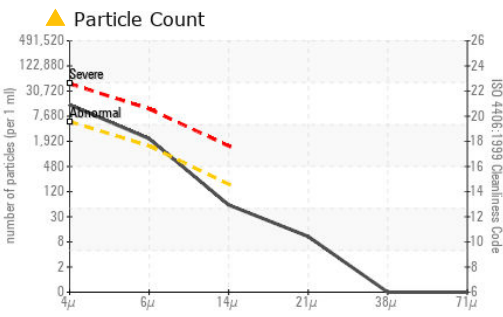
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>&lt;1</b>	1	<1
Potassium	ppm	ASTM D5185m	>20	<b>15</b>	2	<1
Water		WC Method	>0.05	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>▲ 12554</b>	● 8794	▲ 13476
Particles >6µm		ASTM D7647	>1300	<b>● 1943</b>	● 1778	● 2226
Particles >14µm		ASTM D7647	>160	<b>51</b>	84	140
Particles >21µm		ASTM D7647	>40	<b>9</b>	21	35
Particles >38µm		ASTM D7647	>10	<b>0</b>	1	2
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>▲ 21/18/13</b>	● 20/18/14	▲ 21/18/14
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	>0.05	<b>NEG</b>	NEG	NEG

**FLUID CONDITION**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		<b>8</b>	1	2
Boron	ppm	ASTM D5185m		<b>6</b>	2	4
Barium	ppm	ASTM D5185m		<b>0</b>	8	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>4</b>	2	8
Calcium	ppm	ASTM D5185m		<b>4</b>	8	16
Phosphorus	ppm	ASTM D5185m		<b>418</b>	472	443
Zinc	ppm	ASTM D5185m		<b>26</b>	26	31
Sulfur	ppm	ASTM D5185m		<b>110</b>	0	0
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.26</b>	2.35	▲ 2.20
Visc @ 40°C	cSt	ASTM D445		<b>53.5</b>	52.5	52.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MW0072169 **Received** : 05 Jul 2024  
**Lab Number** : 06229085 **Tested** : 09 Jul 2024  
**Unique Number** : 11112578 **Diagnosed** : 09 Jul 2024 - Wes Davis  
**Test Package** : MAR 2

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Certificate L2367  
 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)