



# OIL ANALYSIS REPORT

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

Area

## LOG YARD

Machine Id

## PORTAL CRANE GRAPPLE HOIST GEAR REDUCER (S/N LY105B22DG1)

Component

### Gear Reducer

Fluid

### ROYAL PURPLE SYNERGY 90/220 (--- GAL)

#### RECOMMENDATION

Resample at the next service interval to monitor.

#### WEAR

All component wear rates are normal.

#### CONTAMINATION

There is no indication of any contamination in the component.

#### FLUID CONDITION

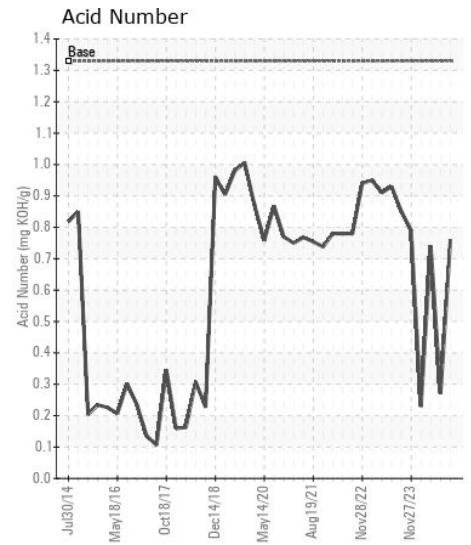
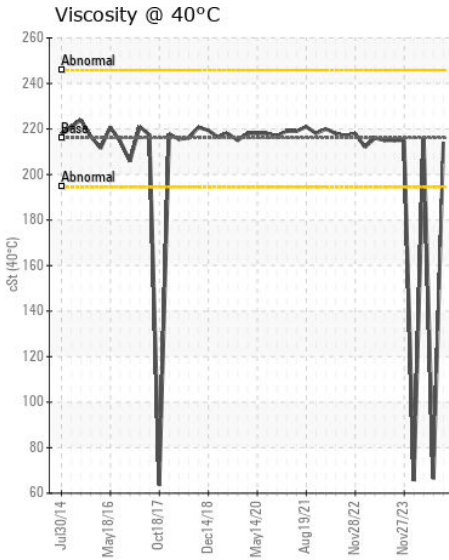
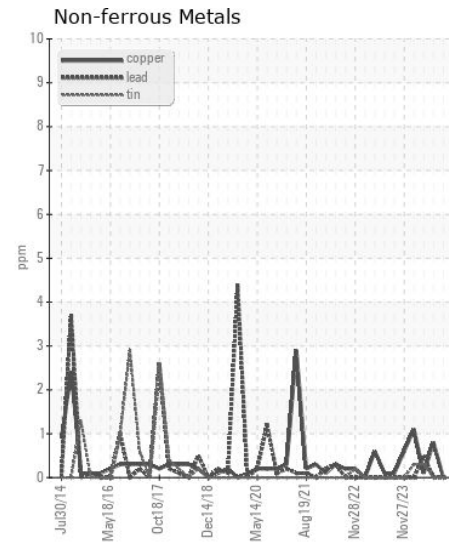
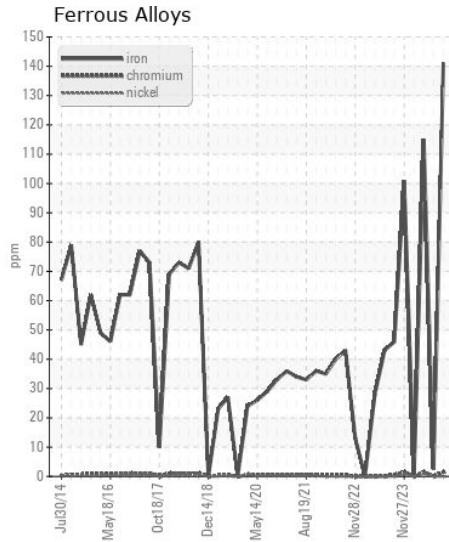
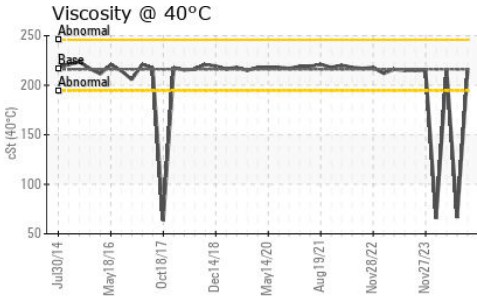
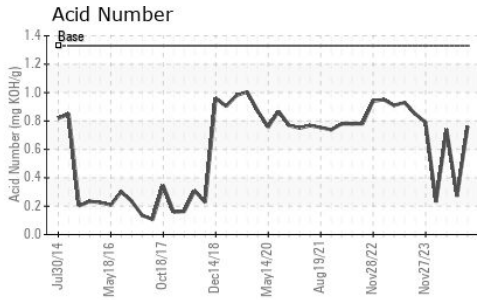
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0834689</b>	WC0895049	WC0834648
Sample Date		Client Info		<b>06 May 2024</b>	11 Apr 2024	15 Feb 2024
Machine Age	mths	Client Info		<b>0</b>	0	0
Oil Age	mths	Client Info		<b>0</b>	0	0
Filter Age	mths	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	N/A	N/A
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	ATTENTION	NORMAL

Iron	ppm	ASTM D5185m	>150	<b>141</b>	2	115
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	1	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>50	<b>0</b>	<1	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	<b>13</b>	<1	12
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	2
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Boron	ppm	ASTM D5185m		<b>110</b>	2	105
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	2	0
Manganese	ppm	ASTM D5185m		<b>1</b>	0	1
Magnesium	ppm	ASTM D5185m		<b>0</b>	14	2
Calcium	ppm	ASTM D5185m		<b>24</b>	87	24
Phosphorus	ppm	ASTM D5185m	370	<b>496</b>	370	504
Zinc	ppm	ASTM D5185m		<b>0</b>	455	0
Sulfur	ppm	ASTM D5185m		<b>11167</b>	901	9456
Acid Number (AN)	mg KOH/g	ASTM D8045	1.33	<b>0.76</b>	0.27	0.74
Visc @ 40°C	cSt	ASTM D445	216.1	<b>214</b>	66.4	216



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0834689

**Lab Number** : 06174686

**Unique Number** : 11020739

**Test Package** : IND 2

**Received** : 09 May 2024

**Tested** : 10 May 2024

**Diagnosed** : 13 May 2024 - Sean Felton

**J.M. Huber Corporation**

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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)