WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ATTENTION

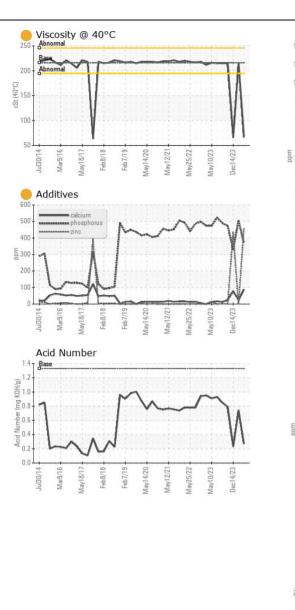
LOG YARD

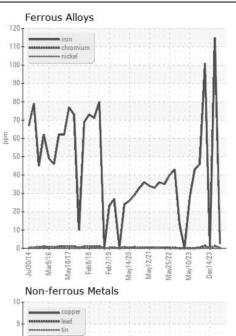
PORTAL CRANE GRAPPLE HOIST GEAR REDUCER (S/N LY105B22DG1)

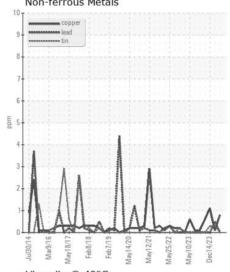
Gear Reducer

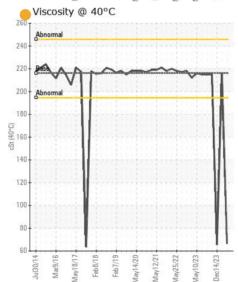
ROYAL PURPLE SYNERGY 90/220 (--- GAL)

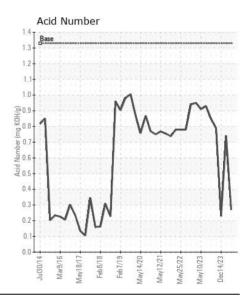
ROYAL PURPLE SYNERGY 90/220 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00	Client Info	2	WC0895049		WC0834607
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		11 Apr 2024		14 Dec 2023
	Machine Age	mths	Client Info		0	0	0
	Oil Age	mths	Client Info		0	0	0
	Filter Age	mths	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				ATTENTION	NORMAL	ATTENTION
WEAR	Iron	ppm	ASTM D5185m	>150	2	115	<1
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	<1	1	0
	Nickel	ppm	ASTM D5185m	>10	0	1	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	1	<1	0
	Lead	ppm	ASTM D5185m	>100	0	<1	0
	Copper	ppm	ASTM D5185m	>50	<1	<1	1
	Tin	ppm	ASTM D5185m	>10	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>50	<1	12	<1
	Potassium	ppm		>20	<1	2	<1
There is no indication of any contamination in the oil.	Water	PP		>0.1	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	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	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	2	1
Additive levels indicate the addition of a different brand, or type of oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		2	105	1
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		2	0	<1
	Manganese	ppm	ASTM D5185m		0	1	<1
	Magnesium	ppm	ASTM D5185m		14	2	11
	Calcium	ppm	ASTM D5185m	075	87	24	78
		ppm	ASTM D5185m	370	370	504	331
	Phosphorus		AOTA DE CO			_	400
	Zinc	ppm	ASTM D5185m		455	0	436
	Zinc Sulfur	ppm	ASTM D5185m	1.00	901	9456	865
	Zinc	ppm			_		













Certificate L2367

Laboratory Sample No.

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0895049 Lab Number : 06151276 Unique Number: 10981354

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Received **Tested**

: 18 Apr 2024 Diagnosed

: 19 Apr 2024 - Jonathan Hester

: 16 Apr 2024

PO BOX 38 CRYSTAL HILL, VA US 24539 Contact: Ted Hudson

J.M. Huber Corporation

ted.hudson@huber.com T: (434)476-3550

F: (434)476-8133

* - 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)