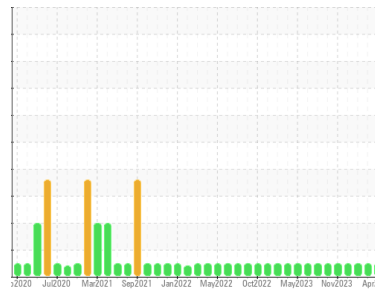




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**LIGHTNIN HA301 (S/N 96E7125501)**  
Component  
**Gearbox**  
Fluid  
**ROYAL PURPLE SYNFILM GT 220 (55 GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

The water content is negligible. 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 suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>RP0036956</b>	RP0036814	RP0036816
Sample Date	Client Info			<b>24 Apr 2024</b>	01 Apr 2024	29 Feb 2024
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>3</b>	4	0
Chromium	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m	>15	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185m	>100	<b>0</b>	1	<1
Copper	ppm	ASTM D5185m	>200	<b>4</b>	5	3
Tin	ppm	ASTM D5185m	>25	<b>0</b>	1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	1	<1

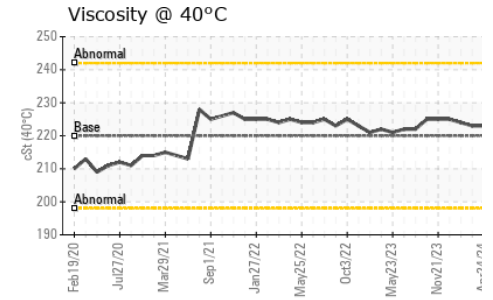
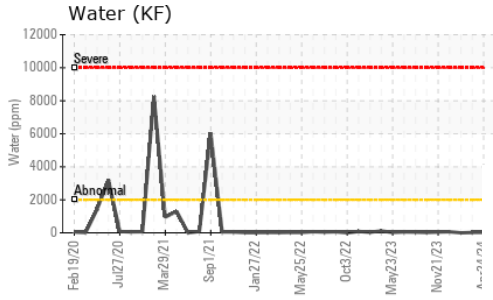
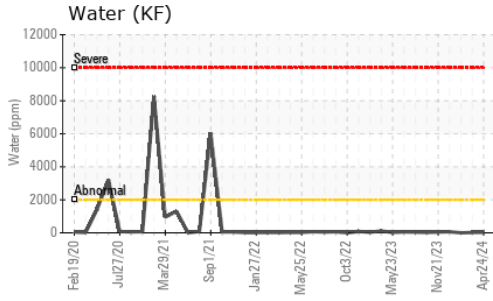
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>&lt;1</b>	1	2
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Magnesium	ppm	ASTM D5185m		<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>4</b>	10	0
Phosphorus	ppm	ASTM D5185m		<b>73</b>	77	60
Zinc	ppm	ASTM D5185m		<b>0</b>	2	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>1</b>	3	2
Sodium	ppm	ASTM D5185m		<b>2</b>	<1	<1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	1
Water	%	ASTM D6304	>0.2	<b>0.002</b>	0.002	0.00
ppm Water	ppm	ASTM D6304	>2000	<b>23</b>	21	0

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.42</b>	0.43	0.40

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	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	>0.2	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	<b>223</b>	223	224

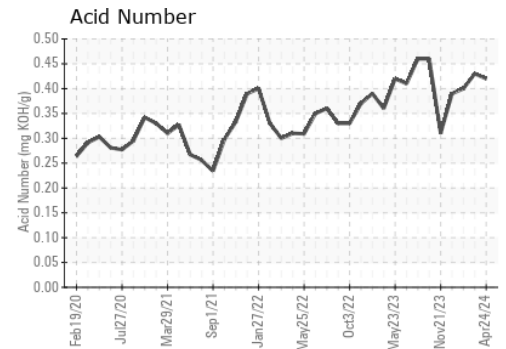
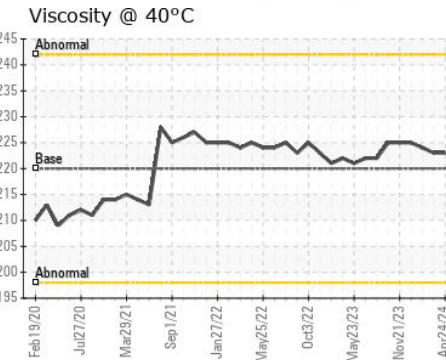
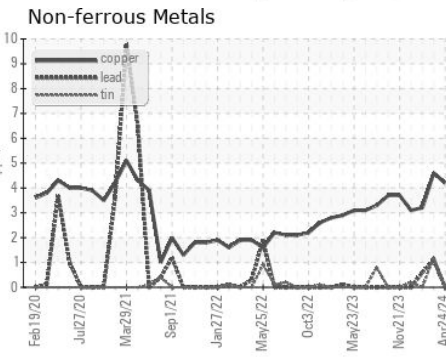
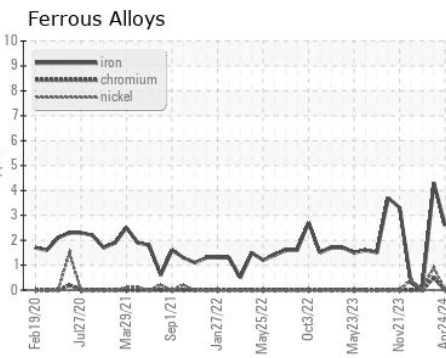
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Color



Bottom

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0036956  
**Lab Number** : **06161596**  
**Unique Number** : 10997019  
**Test Package** : IND 2  
**Received** : 26 Apr 2024  
**Tested** : 29 Apr 2024  
**Diagnosed** : 30 Apr 2024 - Don Baldrige

**INEOS JOLIET**  
 23425 WEST AMOCO ROAD  
 CHANNAHON, IL  
 US 60410  
 Contact: STUART RAMSEY  
 stuart.ramsey@ineos.com  
 T: (815)467-7135  
 F: (815)467-3442

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)