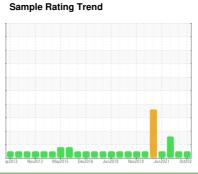


# **OIL ANALYSIS REPORT**

# AREA I [500307177] LIGHTNIN A1440 (S/N AD-25-12)

Component Gearbox

**ROYAL PURPLE SYNFILM GT 220 (6 GAL)** 





### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

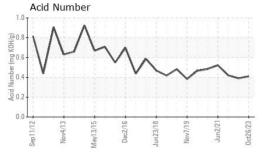
### **Fluid Condition**

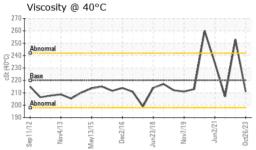
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0844048	WC0804406	WC0735627
Sample Date		Client Info		26 Oct 2023	03 May 2023	31 Oct 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	111	23	21
Chromium	ppm	ASTM D5185m	>15	<1	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	27	6	9
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	<1
Antimony	ppm	ASTM D5185m	>5			
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		1	0	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		109	83	44
Calcium	ppm	ASTM D5185m		21	5	3
Phosphorus	ppm	ASTM D5185m		21	9	16
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		22409	22568	20949
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	13	4	3
Sodium	ppm	ASTM D5185m		2	1	2
Potassium	ppm	ASTM D5185m	>20	2	<1	0
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.39	0.42



## **OIL ANALYSIS REPORT**





					history2
White Metal sca	ılar *Visual	NONE	NONE	NONE	NONE
Yellow Metal sca	ılar *Visual	NONE	NONE	NONE	NONE
Precipitate sca	ılar *Visual	NONE	NONE	NONE	NONE
Silt sca	ılar *Visual	NONE	NONE	NONE	MODER
Debris sca	ılar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt sca	ılar *Visual	NONE	NONE	NONE	NONE
Appearance sca	ılar *Visual	NORML	NORML	NORML	NORML
Odor sca	ılar *Visual	NORML	NORML	NORML	NORML
Emulsified Water sca	ılar *Visual	>0.2	NEG	NEG	0.2%
Free Water sca	ılar *Visual		NEG	NEG	NEG

FLUID PHOPENTIES		method			riistory i	riistoryz	
Visc @ 40°C	cSt	ASTM D445	220	211	253	207	

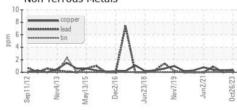
SAMPLE IMAGES

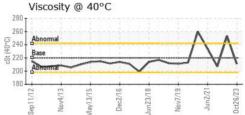
Color

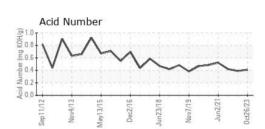
**Bottom** 















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0844048 : 06014579 : 10753723

Received Diagnosed

: 21 Nov 2023 : 24 Nov 2023

Diagnostician : Don Baldridge

725 CANNON BRIDGE RD ORANGEBURG, SC

Contact: ERIC PROVEAUX

SI GROUP INC - ALBEMARLE

eric.proveaux@contractors.siigroup.com

T: (803)539-5228 F: (803)539-5426

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) US 29115