



# OIL ANALYSIS REPORT

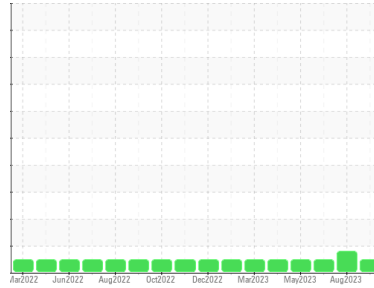
Sample Rating Trend

**NORMAL**



Area  
**{UNASSIGNED}**  
Machine Id  
**P-2301A GEAR**

Component  
**Pump**  
Fluid  
**ROYAL PURPLE SYNFILM GT 150 (3 GAL)**



## DIAGNOSIS

- 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 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>RP0038763</b>	RP0038323	RP0035748
Sample Date	Client Info			<b>22 Aug 2023</b>	02 Aug 2023	29 Jun 2023
Machine Age	hrs	Client Info		<b>64961</b>	64714	64201
Oil Age	hrs	Client Info		<b>7261</b>	7044	6501
Oil Changed	Client Info			<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	<b>5</b>	0	4
Chromium	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>2</b>	<1	0
Aluminum	ppm	ASTM D5185m	>7	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185m	>12	<b>&lt;1</b>	1	0
Copper	ppm	ASTM D5185m	>30	<b>10</b>	10	8
Tin	ppm	ASTM D5185m	>9	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

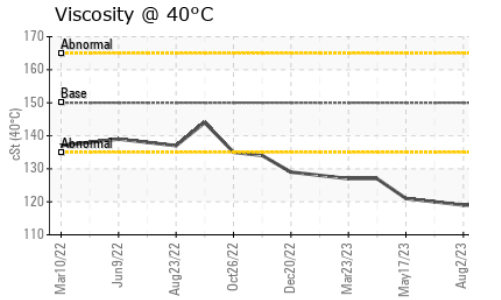
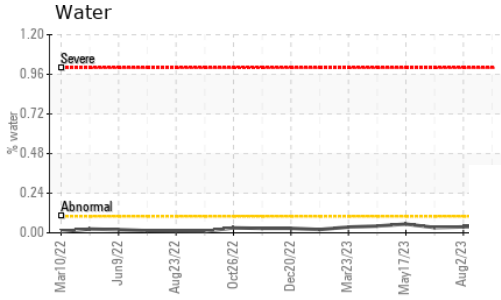
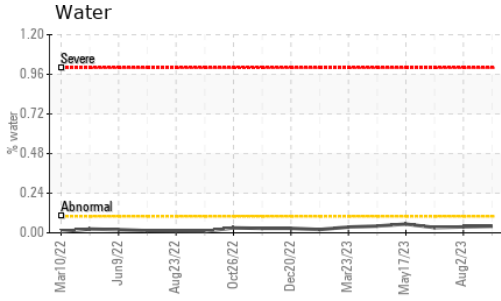
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>20</b>	22	19
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m		<b>605</b>	570	529
Calcium	ppm	ASTM D5185m		<b>555</b>	572	456
Phosphorus	ppm	ASTM D5185m		<b>590</b>	580	498
Zinc	ppm	ASTM D5185m		<b>668</b>	650	576

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>60	<b>1</b>	2	<1
Sodium	ppm	ASTM D5185m		<b>1</b>	1	1
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Water	%	ASTM D6304		<b>0.040</b>	0.036	0.032
ppm Water	ppm	ASTM D6304	>.1	<b>406.2</b>	360.2	329.1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.84</b>	1.02	0.91

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>	▲ MODER	MODER
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		<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

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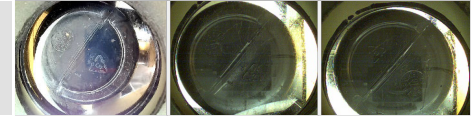
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	150	<b>119</b>	119	120

SAMPLE IMAGES		method	limit/base	current	history1	history2
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Color

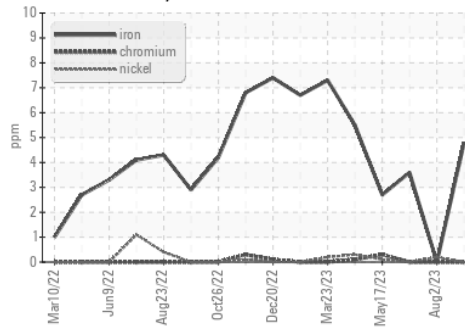


Bottom

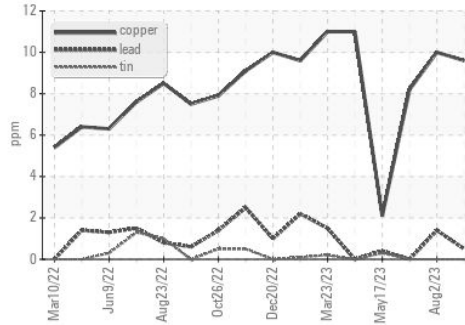


## GRAPHS

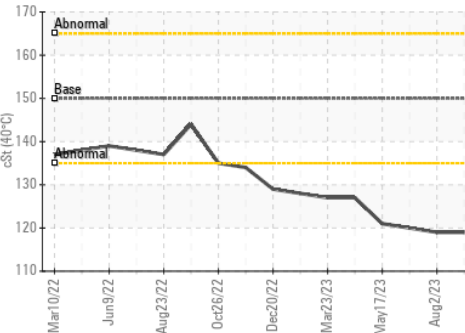
### Ferrous Alloys



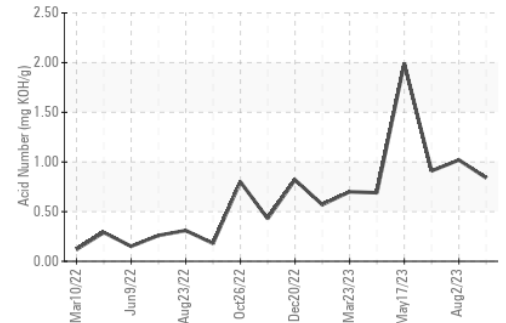
### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0038763 **Received** : 28 Aug 2023  
**Lab Number** : **05936766** **Diagnosed** : 29 Aug 2023  
**Unique Number** : 10622037 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**TEAM SUR S.A.S.**

BOGOTA,  
CO

Contact: Team Sur  
jconde@teamsur.com

T: (300)740-0654

F:

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)