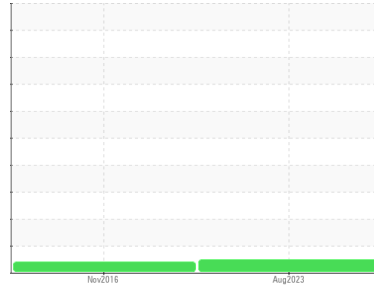




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**DODGE SCREW PUMP S**  
 Component  
**Pump**  
 Fluid  
**ROYAL PURPLE SYNERGY 90/220 (--- QTS)**

## 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>RP0020985</b>	RP187352	---
Sample Date	Client Info		<b>01 Aug 2023</b>	30 Nov 2016	---
Machine Age	hrs	Client Info	<b>48761</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>Not Changed</b>	N/A	---
Sample Status			<b>NORMAL</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >90	<b>65</b>	57	---
Chromium	ppm	ASTM D5185m >5	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m >5	<b>0</b>	2	---
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	---
Silver	ppm	ASTM D5185m >3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >7	<b>0</b>	0	---
Lead	ppm	ASTM D5185m >12	<b>0</b>	2	---
Copper	ppm	ASTM D5185m >30	<b>&lt;1</b>	9	---
Tin	ppm	ASTM D5185m >9	<b>0</b>	0	---
Antimony	ppm	ASTM D5185m	<b>---</b>	105	---
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m	<b>5</b>	0	---
Calcium	ppm	ASTM D5185m	<b>8</b>	0	---
Phosphorus	ppm	ASTM D5185m 370	<b>122</b>	140	---
Zinc	ppm	ASTM D5185m	<b>34</b>	31	---

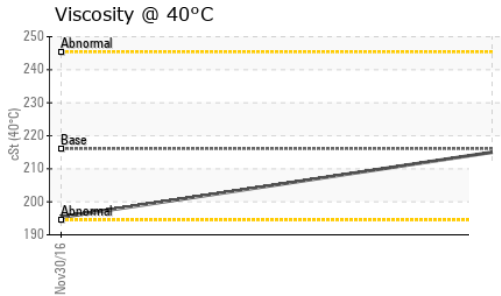
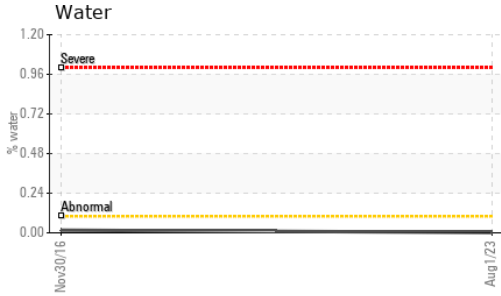
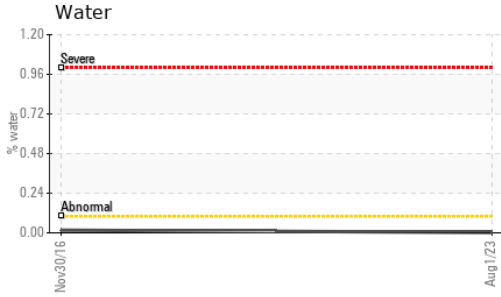
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >60	<b>10</b>	50	---
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	---
Water	%	ASTM D6304	<b>0.002</b>	0.016	---
ppm Water	ppm	ASTM D6304 >.1	<b>23.0</b>	160	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.33	<b>0.34</b>	0.580	---

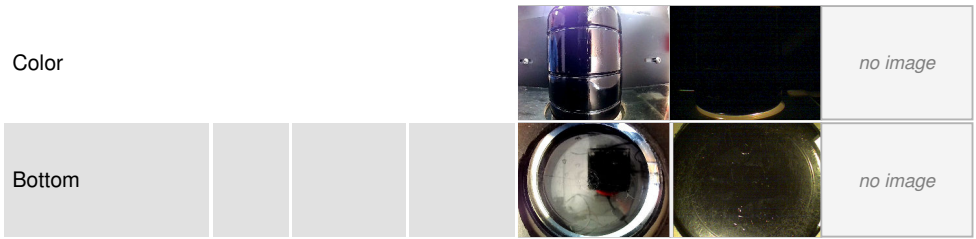
# OIL ANALYSIS REPORT



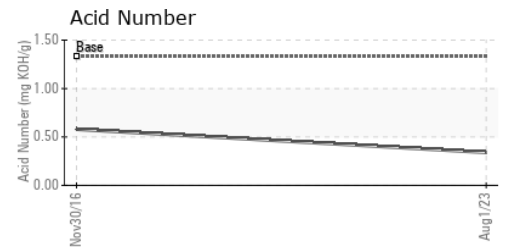
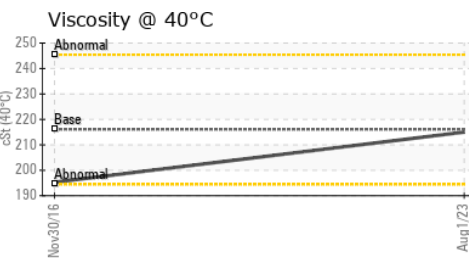
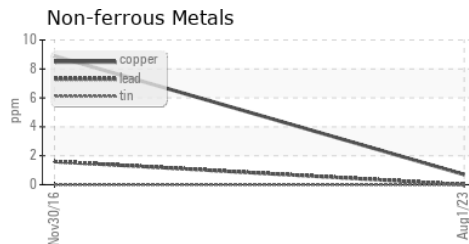
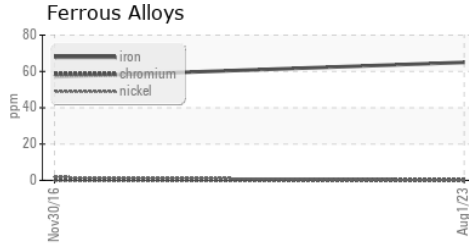
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>MODER</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	▲ MODER	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	<b>NEG</b>	NEG	---	
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---	

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	216.1	<b>215</b>	195.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0020985 **Received** : 16 Aug 2023  
**Lab Number** : **05926183** **Diagnosed** : 17 Aug 2023  
**Unique Number** : 10606130 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**VISION INDUSTRIAL SALES**  
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Contact: LEESA ELSEMAN  
 vision@mchsi.com; jon.fazenbaker@wearcheck.com  
 T: (319)341-5823  
 F: (319)341-7867

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)