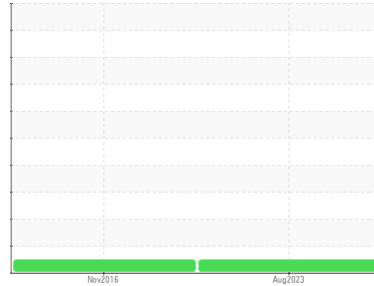




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
ELMCO N AERATOR
 Component
Gearbox
 Fluid
ROYAL PURPLE SYNERGY 90/220 (--- 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		RP0020986	RP187350	---
Sample Date	Client Info		01 Aug 2023	30 Nov 2016	---
Machine Age	hrs	Client Info	54379	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Not Chngd	N/A	---
Sample Status			NORMAL	NORMAL	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	26	19	---
Chromium	ppm	ASTM D5185m >15	0	<1	---
Nickel	ppm	ASTM D5185m >15	0	<1	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >25	0	<1	---
Lead	ppm	ASTM D5185m >100	0	1	---
Copper	ppm	ASTM D5185m >200	2	1	---
Tin	ppm	ASTM D5185m >25	0	0	---
Antimony	ppm	ASTM D5185m >5	---	0	---
Vanadium	ppm	ASTM D5185m	<1	0	---
Cadmium	ppm	ASTM D5185m	<1	<1	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	34	---
Barium	ppm	ASTM D5185m	0	0	---
Molybdenum	ppm	ASTM D5185m	<1	0	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m	3	1	---
Calcium	ppm	ASTM D5185m	69	60	---
Phosphorus	ppm	ASTM D5185m 370	767	696	---
Zinc	ppm	ASTM D5185m	16	16	---

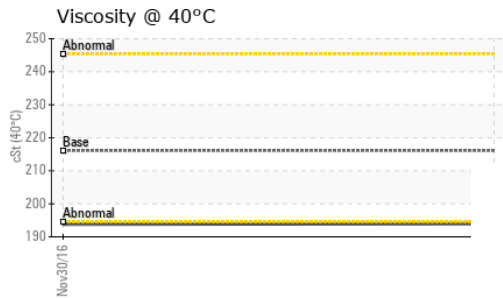
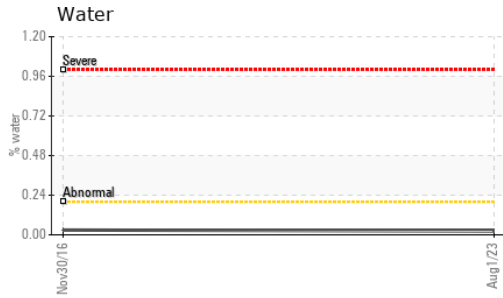
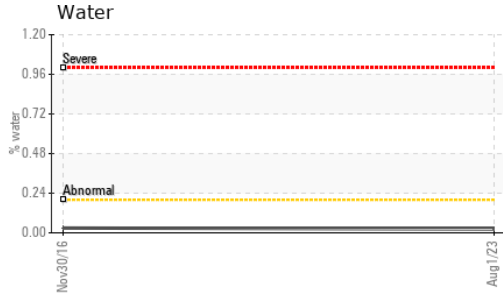
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	2	2	---
Sodium	ppm	ASTM D5185m	10	8	---
Potassium	ppm	ASTM D5185m >20	4	3	---
Water	%	ASTM D6304 >0.2	0.023	0.029	---
ppm Water	ppm	ASTM D6304 >2000	239.7	290	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.33	1.36	1.26	---

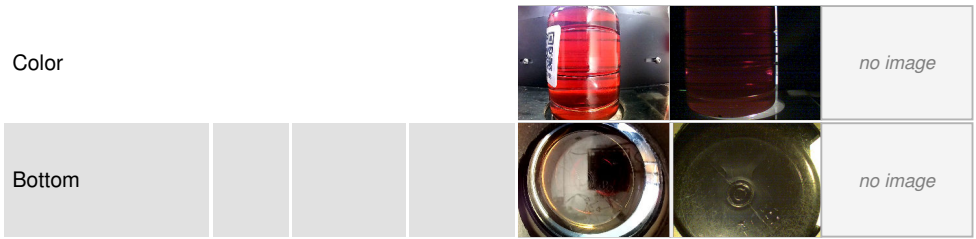
OIL ANALYSIS REPORT



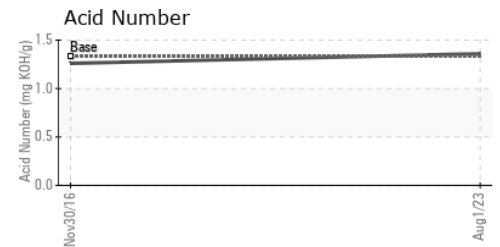
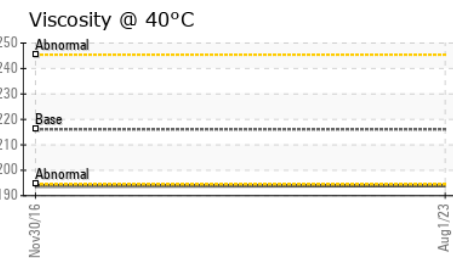
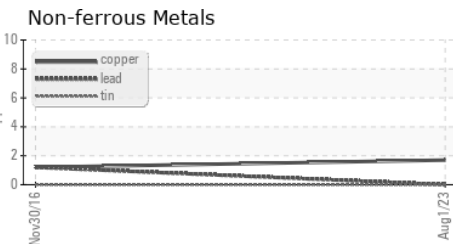
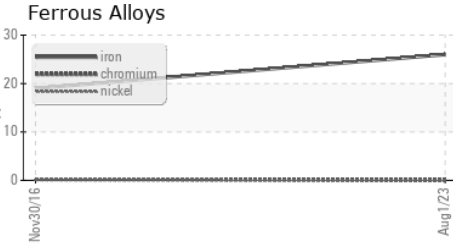
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	216.1	194	193.8

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. : RP0020986 **Received** : 16 Aug 2023
Lab Number : **05926182** **Diagnosed** : 17 Aug 2023
Unique Number : 10606129 **Diagnostician** : Don Baldrige
Test Package : IND 2

VISION INDUSTRIAL SALES
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 US 52245
 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)