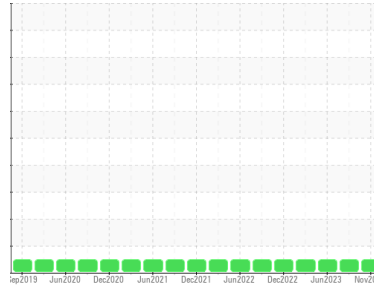# OIL ANALYSIS REPORT

Sample Rating Trend

Machine Id
INKS_P14 INKS_P14_M14
Component
Drive End Bearing
Fluid
ROYAL PURPLE SYNFILM GT 32 (--- 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

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number		Client Info	**RP0034167**	RP0034080	RP0026124
Sample Date		Client Info	**15 Nov 2023**	25 Sep 2023	14 Jun 2023
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	NORMAL

WEAR METALS

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	**0**	0	<1
Chromium	ppm	ASTM D5185m	>20	**0**	0	0
Nickel	ppm	ASTM D5185m	>20	**<1**	<1	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**0**	0	<1
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**0**	0	0
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

ADDITIVES

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	<1	<1
Magnesium	ppm	ASTM D5185m		**16**	13	14
Calcium	ppm	ASTM D5185m		**4**	4	4
Phosphorus	ppm	ASTM D5185m		**4**	1	2
Zinc	ppm	ASTM D5185m		**0**	5	0

CONTAMINANTS

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**<1**	<1	0
Sodium	ppm	ASTM D5185m		**2**	1	0
Potassium	ppm	ASTM D5185m	>20	**2**	<1	0
Water	%	ASTM D6304	>2	**0.005**	0.006	0.005
ppm Water	ppm	ASTM D6304		**60**	61.3	51.6

FLUID DEGRADATION

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.089**	0.082	0.088

VISUAL

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**LIGHT**	LIGHT	LIGHT
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

OIL ANALYSIS REPORT

Water (KF)

Water (KF)

Viscosity @ 40°C
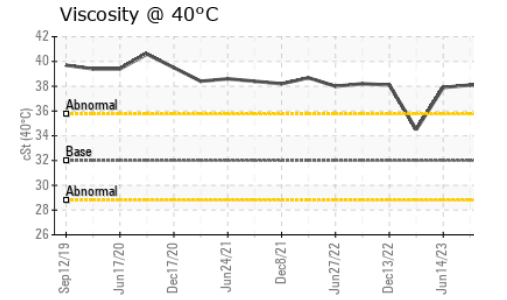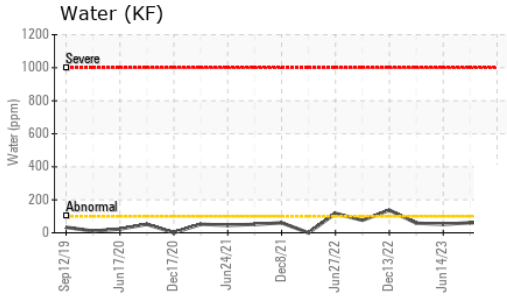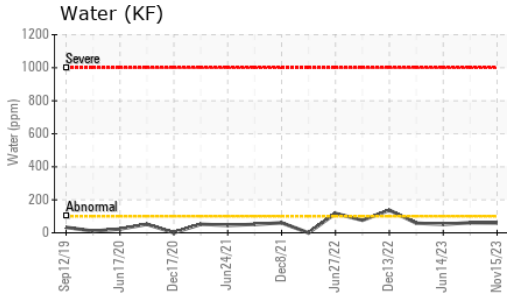
FLUID PROPERTIES

FLUID PROPERTIES	method		limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	**38.1**	38.1	37.9

SAMPLE IMAGES

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

Ferrous Alloys

iron, chromium, nickel
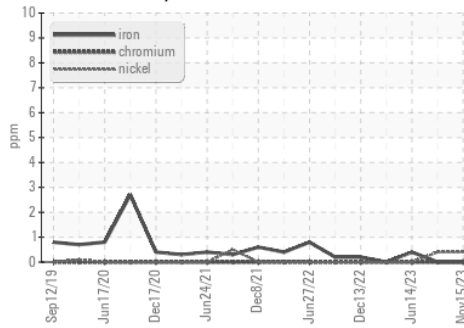
Non-ferrous Metals

copper, lead, tin
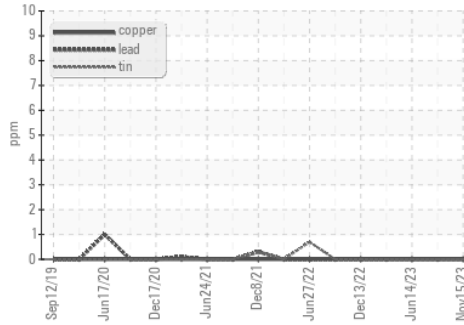
Viscosity @ 40°C
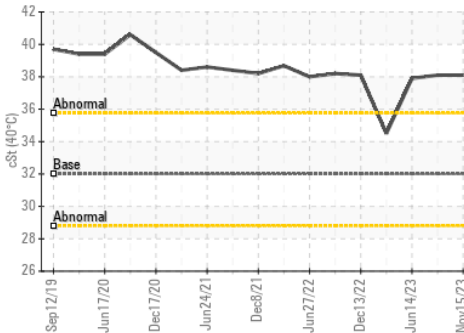
Acid Number
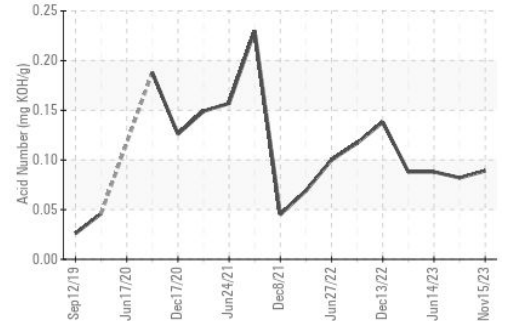
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : RP0034167   **Received** : 24 Nov 2023

Lab Number : 06016498   **Diagnosed** : 28 Nov 2023

Unique Number : 10755642   **Diagnostician** : Jonathan Hester

Test Package : IND 2

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)

ENERGY TRANSFER - INKSTER
7155 INKSTER ROAD
TAYOR, MI
US 48180
Contact: NATHAN HOLMES
nathan.holmes@energytransfer.com
T:
F:

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
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