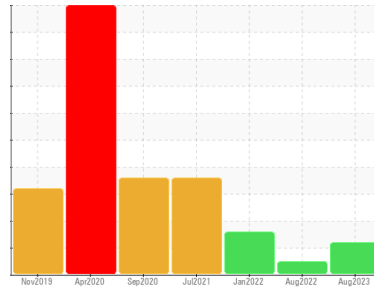




PROBLEM SUMMARY

Sample Rating Trend



VISUAL METAL



Machine Id
HPDL_B3320 HPDL_B3320_P3320
 Component
Non-Drive End Pump
 Fluid
ROYAL PURPLE SYNFILM GT 46 (1 QTS)

COMPONENT CONDITION SUMMARY

No relevant graphs to display


RECOMMENDATION

We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	NORMAL	ABNORMAL
Yellow Metal	scalar	*Visual	NONE	▲ MODER	NONE	▲ MODER

Customer Id: ENEJEW
Sample No.: RP0021880
Lab Number: 05924400
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

24 Aug 2022 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



21 Jan 2022 Diag: Jonathan Hester

VISUAL METAL



We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor. Moderate concentration of visible metal present. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The water content is negligible. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



19 Jul 2021 Diag: Jonathan Hester

DIRT



We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. Moderate concentration of visible dirt/debris present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

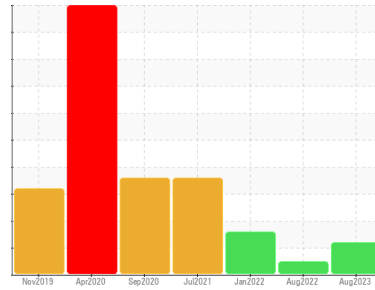
view report





OIL ANALYSIS REPORT

Sample Rating Trend



VISUAL METAL



Machine Id
HPDL_B3320 HPDL_B3320_P3320
 Component
Non-Drive End Pump
 Fluid
ROYAL PURPLE SYNFILM GT 46 (1 QTS)

DIAGNOSIS

Recommendation
 We suspect abnormal contamination may be due to sampling method. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear
 Moderate concentration of visible metal present. 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

	method	limit/base	current	history1	history2
Sample Number	Client Info		RP0021880	RP0017605	RP0017733
Sample Date	Client Info		11 Aug 2023	24 Aug 2022	21 Jan 2022
Machine Age	hrs	Client Info	9326	6421	6421
Oil Age	hrs	Client Info	9326	6421	5776
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >75	10	4	40
Chromium	ppm	ASTM D5185m >5	0	0	<1
Nickel	ppm	ASTM D5185m	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	<1
Aluminum	ppm	ASTM D5185m >5	<1	<1	<1
Lead	ppm	ASTM D5185m >10	0	2	1
Copper	ppm	ASTM D5185m >15	3	5	4
Tin	ppm	ASTM D5185m	0	<1	<1
Antimony	ppm	ASTM D5185m	---	---	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	0	0	23
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m 95	96	69	88
Calcium	ppm	ASTM D5185m 0	0	0	24
Phosphorus	ppm	ASTM D5185m 0	2	10	3
Zinc	ppm	ASTM D5185m 0	0	7	3

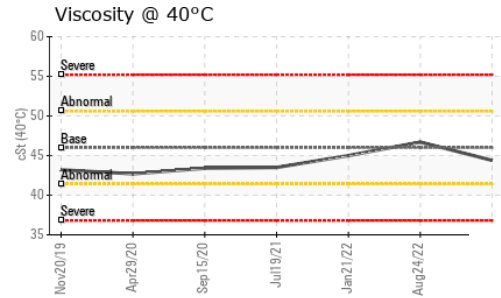
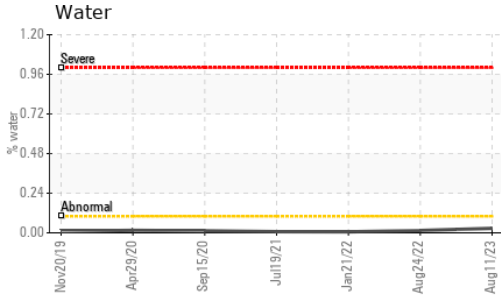
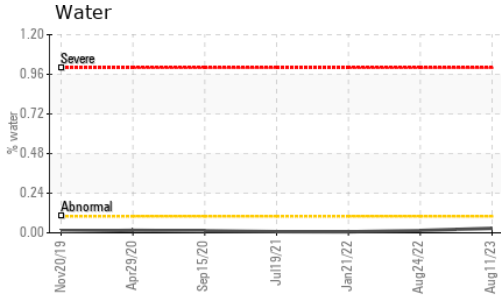
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	6	4	12
Sodium	ppm	ASTM D5185m	1	0	<1
Potassium	ppm	ASTM D5185m >20	2	0	0
Water	%	ASTM D6304	0.027	0.014	0.006
ppm Water	ppm	ASTM D6304 >.1	273.6	147.2	69.9

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.39	0.33	0.37

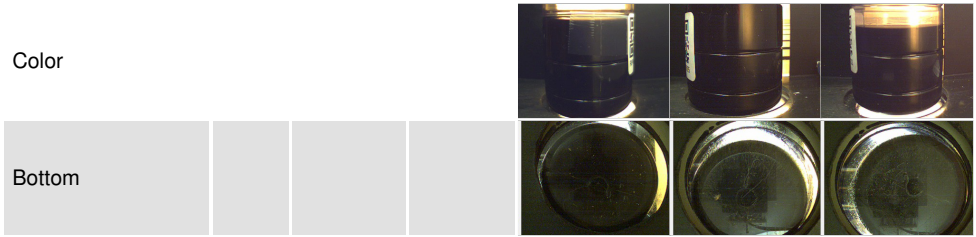
OIL ANALYSIS REPORT



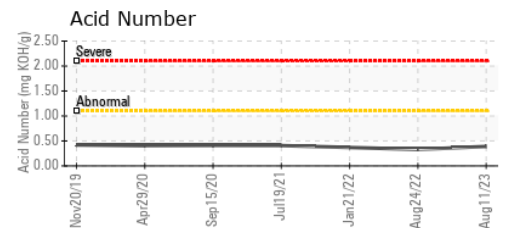
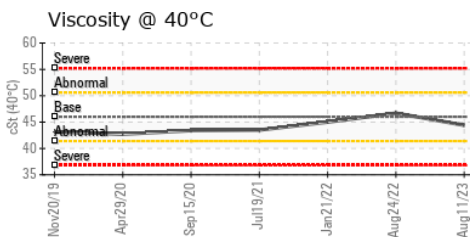
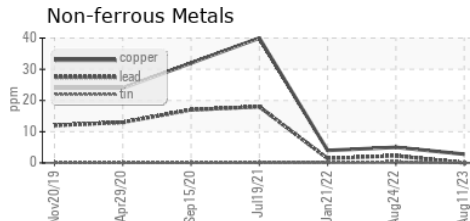
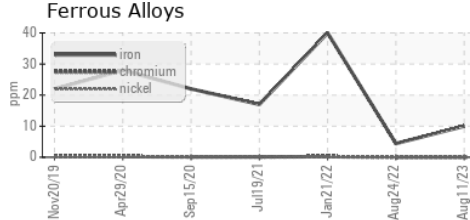
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	▲ MODER	NONE	▲ MODER
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	▲ LIGHT	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	46.0	44.4	46.7	45.0

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. : RP0021880 **Received** : 14 Aug 2023
Lab Number : 05924400 **Diagnosed** : 16 Aug 2023
Unique Number : 10604347 **Diagnostician** : Angela Borella
Test Package : IND 2

ENERGY TRANSFER - HOPEDALE
 46725 GIACOBBI ROAD
 JEWETT, OH
 US 43986
 Contact: KEN VOLL

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)

T: (330)414-2573

F: