



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
FINISHING BAY CRANES
 Machine Id
EST 10.1 NORTHEAST BRIDGE
 Component
Gearbox
 Fluid
ESSO SPARTAN EP 220 (3 LTR)

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		RP0035516	---	---
Sample Date	Client Info		15 Jun 2023	---	---
Machine Age	hrs	Client Info	0	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			NORMAL	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		14	---	---
Iron	ppm	ASTM D5185m >200	14	---	---
Chromium	ppm	ASTM D5185m >15	<1	---	---
Nickel	ppm	ASTM D5185m >15	0	---	---
Titanium	ppm	ASTM D5185m	0	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >25	0	---	---
Lead	ppm	ASTM D5185m >100	<1	---	---
Copper	ppm	ASTM D5185m >200	22	---	---
Tin	ppm	ASTM D5185m >25	0	---	---
Vanadium	ppm	ASTM D5185m	0	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m .5	0	---	---
Barium	ppm	ASTM D5185m	0	---	---
Molybdenum	ppm	ASTM D5185m 0	0	---	---
Manganese	ppm	ASTM D5185m	<1	---	---
Magnesium	ppm	ASTM D5185m 0	0	---	---
Calcium	ppm	ASTM D5185m 1.7	6	---	---
Phosphorus	ppm	ASTM D5185m 250	217	---	---
Zinc	ppm	ASTM D5185m .3	0	---	---

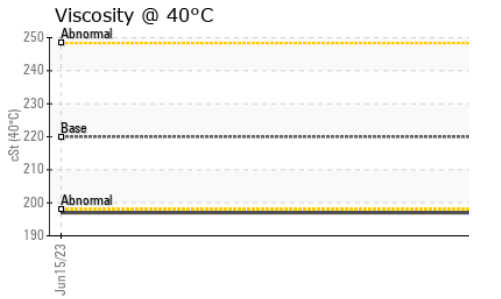
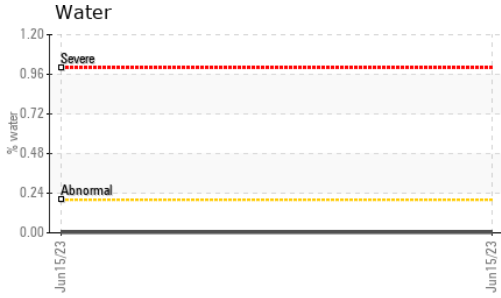
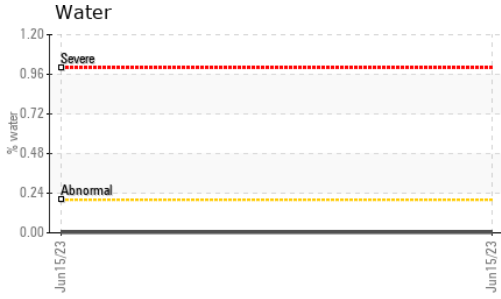
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	17	---	---
Sodium	ppm	ASTM D5185m	<1	---	---
Potassium	ppm	ASTM D5185m >20	2	---	---
Water	%	ASTM D6304 >0.2	0.003	---	---
ppm Water	ppm	ASTM D6304 >2000	33.3	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.75	0.53	---	---

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	---
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	---

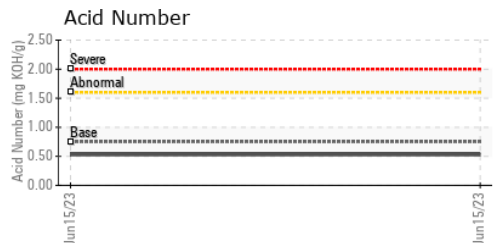
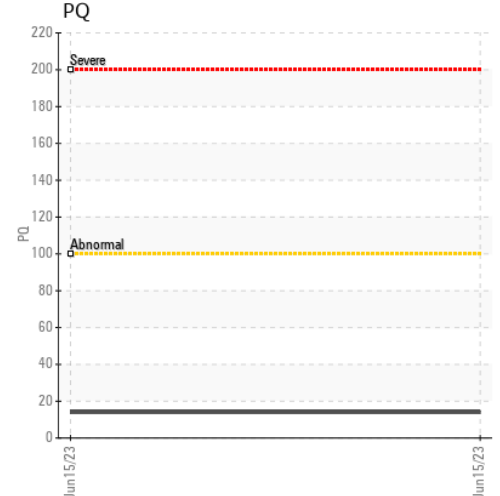
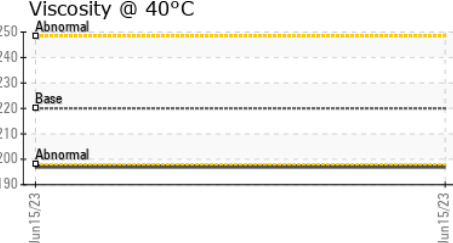
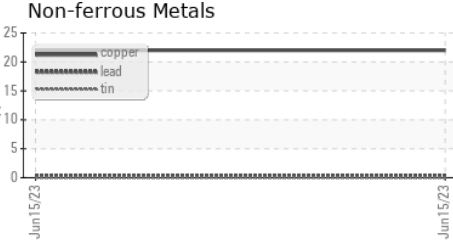
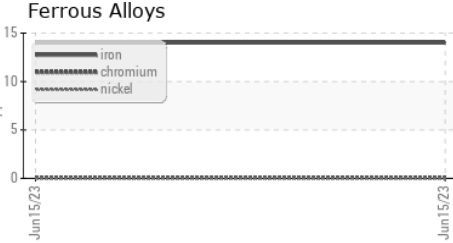
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	197	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

Bottom

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0035516 **Received** : 19 Jun 2023
Lab Number : 05876881 **Diagnosed** : 21 Jun 2023
Unique Number : 10521984 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: PQ)

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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)