

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



FINISHING BAY CRANES **EST-40 NORTHWEST BRIDGE**

Component

Gearbox

GEAR OIL ISO 220 (--- QTS)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

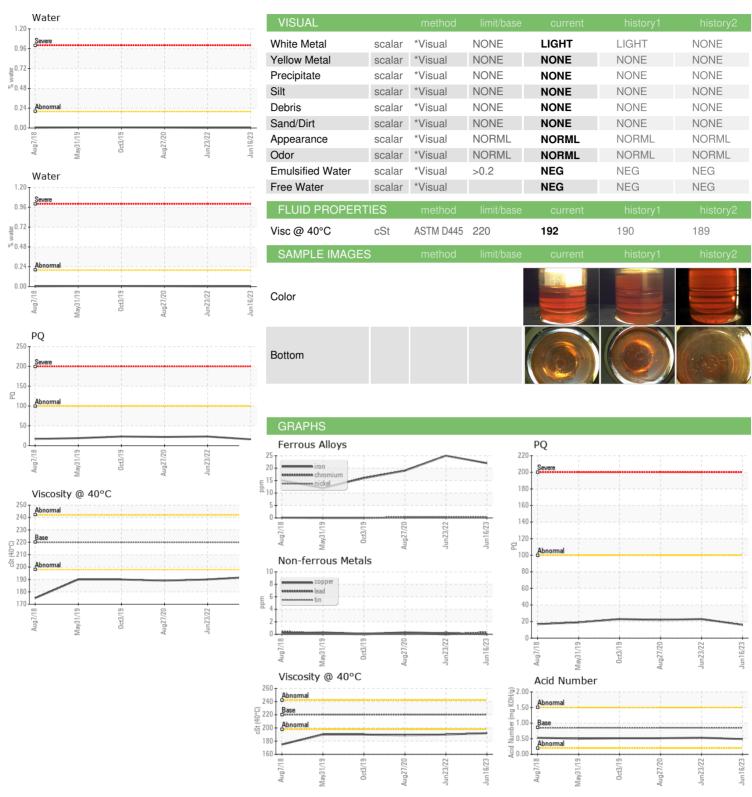
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0035013	RP0026601	RP0009851
Sample Date		Client Info		16 Jun 2023	23 Jun 2022	27 Aug 2020
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		method	limit/base	current	history1	history2
PQ		ASTM D8184		16	23	22
Iron	ppm	ASTM D5185m	>200	22	25	19
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	<1	0
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppiii	710 1111 20 100111		U	0	Ü
ADDITIVES	ppiii	method	limit/base	current	history1	history2
	ppm		limit/base			-
ADDITIVES		method		current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	50	current 0	history1	history2
ADDITIVES Boron Barium	ppm ppm	method ASTM D5185m ASTM D5185m	50 15	current 0 0	history1 4 0	history2 4 <1
ADDITIVES Boron Barium Molybdenum	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	50 15	current 0 0 0 <	history1 4 0 0 0 <1	history2 4 <1 0 <1 <1 <1
ADDITIVES Boron Barium Molybdenum Manganese	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15	current 0 0 0 <	history1 4 0 0 <1	history2 4 <1 0 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50	current 0 0 0 <	history1 4 0 0 0 <1	history2 4 <1 0 <1 <1 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	50 15 15 50	current 0 0 0 0 <1 0 18	history1 4 0 0 <1 <1 2	history2 4 <1 0 <1 <1 <1 9
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	50 15 15 50 50 350	current 0 0 0 0 <1 0 18 206	history1 4 0 0 0 <1 <1 2 242	history2 4 <1 0 <1 <1 <1 9 205
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	50 15 15 50 50 350 100	current 0 0 0 0 <1 0 18 206 0 current	history1 4 0 0 0 <1 <1 2 242 6 history1 14	history2 4 <1 0 <1 <1 <1 9 205 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	50 15 15 50 50 350 100	current 0 0 0 0 <1 0 18 206 0 current	history1 4 0 0 0 <1 <1 2 242 6 history1	history2 4 <1 0 <1 <1 <1 9 205 0 history2
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	50 15 15 50 50 350 100	current 0 0 0 0 <1 0 18 206 0 current 13 <1	history1 4 0 0 0 <1 <1 2 242 6 history1 14 0 0	history2 4 <1 0 <1 <1 <1 9 205 0 history2 12
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	50 15 15 50 50 350 100 limit/base >50	current 0 0 0 0 <1 0 18 206 0 current 13 <1	history1 4 0 0 0 <1 <1 2 242 6 history1 14 0	history2 4 <1 0 <1 <1 <1 9 205 0 history2 12 0
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	50 15 15 50 50 350 100 limit/base >50 >20	current 0 0 0 0 <1 0 18 206 0 current 13 <1	history1 4 0 0 0 <1 <1 2 242 6 history1 14 0 0	history2 4 <1 0 <1 <1 9 205 0 history2 12 0 <1
ADDITIVES Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	method ASTM D5185m	50 15 15 50 50 350 100 limit/base >50 >20 >0.2	current 0 0 0 0 <1 0 18 206 0 current 13 <1 1 0.003	history1 4 0 0 <1 <1 2 242 6 history1 14 0 0 0.003	history2 4 <1 0 <1 <1 9 205 0 history2 12 0 <1 0.005



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No.

Lab Number

: RP0035013 : 05876875

Unique Number : 10521978

Test Package : IND 2 (Additional Tests: PQ) 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.

OUTOKUMPU STAINLESS USA

HWY 43 N CALVERT, AL US 36513

Contact: MARIO JOHNSON Mario.johnson@outokumpu.com

T: (251)321-4105 F: x:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Diagnostician

: 19 Jun 2023

: 21 Jun 2023

: Jonathan Hester

Received

Diagnosed