

PROBLEM SUMMARY

Sample Rating Trend

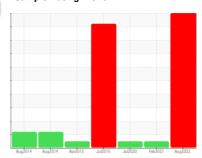
WEAR

ANDRITZ SAPH UNIT #2 DOWNSTREAM BEARING

Component

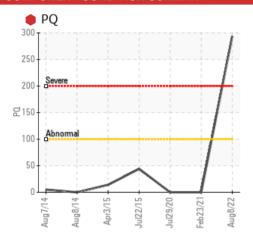
Bearing

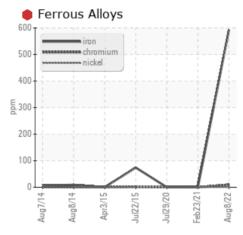
ESSO NUTO H ISO 100 (21 LTR)

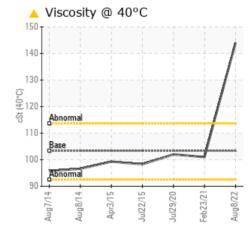




COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS											
Sample Status				SEVERE	NORMAL	NORMAL					
PQ		ASTM D8184*		294	0	0					
Iron	ppm	ASTM D5185(m)	>20	592	<1	<1					
Lithium	ppm	ASTM D5185(m)		86	<1	<1					
Visc @ 40°C	cSt	ASTM D7279(m)	103.3	144	101	102					

Customer Id: PET412PET **Sample No.:** WC0632233 Lab Number: 02509803 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS Action Status Date Done By Description Resample -- -- ? We recommend an early resample to monitor this condition. Check Dirt Access -- ? We advise that you check all areas where contaminants can enter the system.

HISTORICAL DIAGNOSIS

23 Feb 2021 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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.



29 Jul 2020 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. 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

22 Jul 2015 Diag: Kevin Marson

WEAR



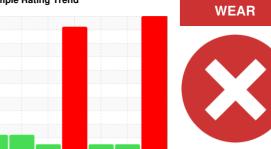
We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition. Iron ppm levels are severe. A sharp increase in the iron level is noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

ANDRITZ SAPH UNIT #2 DOWNSTREAM BEARING

Component

Bearing

ESSO NUTO H ISO 100 (21 LTR)

DIAGNOSIS

Recommendation

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

Iron ppm levels are severe. PQ levels are severe. Bearing wear is indicated. The very high ferrous density (PQ) index indicates that severe wear is occurring.

Contamination

Lithium (Li) level severe at 86ppm., indicates possible grease contamination. The water content is negligible.

Fluid Condition

Viscosity of sample indicates oil is within ISO 150 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

		Aug2014	Aug2014 Apr2015	Jul2015 Jul2020 Feb2021	Aug2022	
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0632233	WC0488617	WC0488624
Sample Date		Client Info		08 Aug 2022	23 Feb 2021	29 Jul 2020
Machine Age	hrs	Client Info		61945	51155	47189
Oil Age	hrs	Client Info		10790	0	47189
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				SEVERE	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		294	0	0
Iron	ppm	ASTM D5185(m)	>20	9 592	<1	<1
Chromium	ppm	ASTM D5185(m)	>20	10	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	0
Silver	ppm	ASTM D5185(m)		0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
Lead	ppm	ASTM D5185(m)	>20	2	<1	0
Copper	ppm	ASTM D5185(m)	>20	7	2	2
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		<1	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	<1
Barium						
	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m) ASTM D5185(m)		0 <1	0	0
Molybdenum Manganese						
•	ppm	ASTM D5185(m)		<1	0	0
Manganese	ppm	ASTM D5185(m) ASTM D5185(m)		<1 3	0	0
Manganese Magnesium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		<1 3 <1	0 0 <1	0 0 <1
Manganese Magnesium Calcium	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		<1 3 <1 42	0 0 <1 50	0 0 <1 47
Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		<1 3 <1 42 390	0 0 <1 50 346	0 0 <1 47 361
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		<1 3 <1 42 390 403	0 0 <1 50 346 420	0 0 <1 47 361 396
Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base	<1 3 <1 42 390 403 6538	0 0 <1 50 346 420 7317	0 0 <1 47 361 396 7086
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)	limit/base >15	<1 3 <1 42 390 403 6538	0 0 <1 50 346 420 7317 <1	0 0 <1 47 361 396 7086
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		<1 3 <1 42 390 403 6538 86 current	0 0 <1 50 346 420 7317 <1	0 0 <1 47 361 396 7086 <1 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m)		<1 3 <1 42 390 403 6538 86 current	0 0 <1 50 346 420 7317 <1 history1	0 0 <1 47 361 396 7086 <1 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m)	>15 >20	<1 3 <1 42 390 403 6538 86 current 3 1	0 0 <1 50 346 420 7317 <1 history1 2	0 0 <1 47 361 396 7086 <1 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur Lithium CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>15 >20	<1 3 <1 42 390 403 6538 86 current 3 1	0 0 <1 50 346 420 7317 <1 history1 2 0	0 0 <1 47 361 396 7086 <1 history2 <1 <1 3

Acid Number (AN)

mg KOH/g ASTM D974* .40

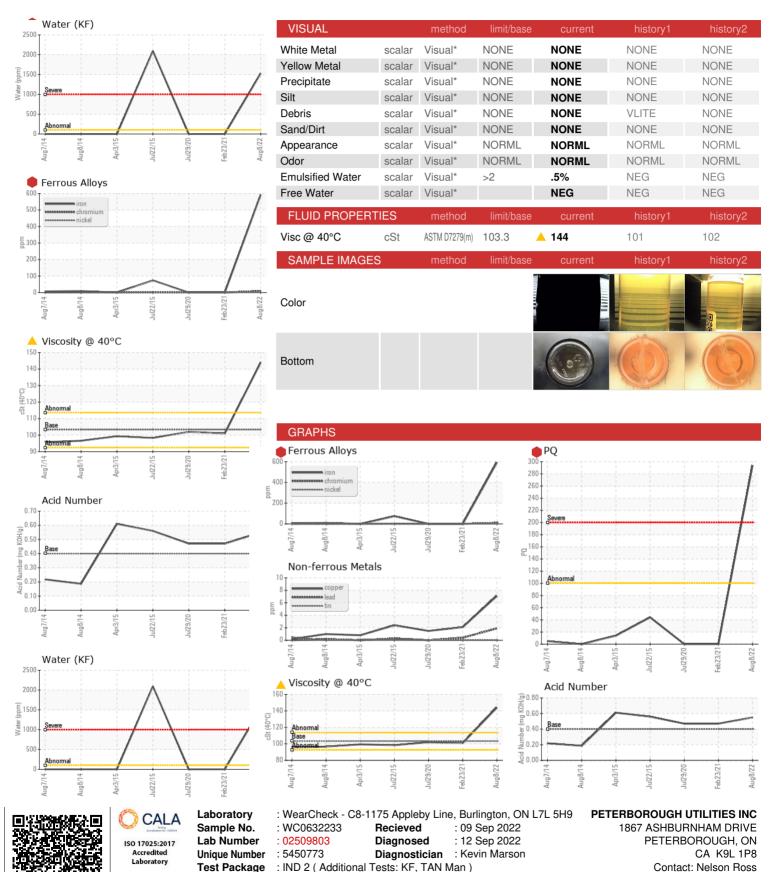
0.47

0.55

0.47



OIL ANALYSIS REPORT



To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.

Validity of results and interpretation are based on the sample and information as supplied.

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