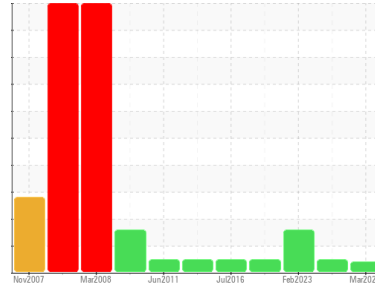




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Area
62 BOILER FEEDWATER
 Machine Id
#6 FEEDWATER PUMP OUTBOARD BEARING (S/N 622125)
 Component
Outboard Bearing
 Fluid
ESSO NUTO H ISO 68 (2 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

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. 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	WC	WC	WC
Sample Date	Client Info	11 Mar 2024	06 Sep 2023	14 Feb 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	NORMAL	ATTENTION

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	0	0	67	
Iron	ppm	ASTM D5185(m) >20	0	20	113
Chromium	ppm	ASTM D5185(m) >2	0	<1	2
Nickel	ppm	ASTM D5185(m) >2	0	<1	2
Titanium	ppm	ASTM D5185(m)	0	0	<1
Silver	ppm	ASTM D5185(m)	0	0	0
Aluminum	ppm	ASTM D5185(m) >5	<1	<1	3
Lead	ppm	ASTM D5185(m) >25	0	4	6
Copper	ppm	ASTM D5185(m) >5	1	46	41
Tin	ppm	ASTM D5185(m) >15	<1	0	<1
Antimony	ppm	ASTM D5185(m)	0	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) 0	0	0	<1
Barium	ppm	ASTM D5185(m) 0	0	0	0
Molybdenum	ppm	ASTM D5185(m) 0	0	0	0
Manganese	ppm	ASTM D5185(m)	0	<1	1
Magnesium	ppm	ASTM D5185(m) 5	<1	1	<1
Calcium	ppm	ASTM D5185(m) 50	55	34	42
Phosphorus	ppm	ASTM D5185(m) 330	364	366	360
Zinc	ppm	ASTM D5185(m) 420	447	354	413
Sulfur	ppm	ASTM D5185(m) 3100	3442	6214	6323
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

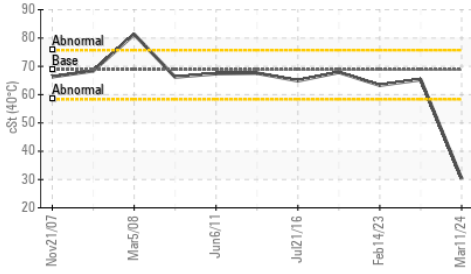
method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m) >15	0	2	10
Sodium	ppm	ASTM D5185(m)	0	8	3
Potassium	ppm	ASTM D5185(m) >20	<1	1	2

FLUID DEGRADATION

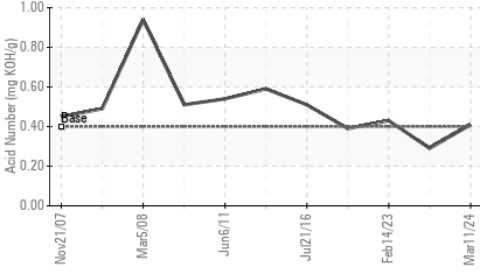
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974* .40	0.41	0.29	0.43

OIL ANALYSIS REPORT

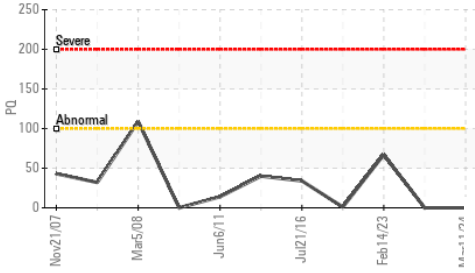
▲ Viscosity @ 40°C



Acid Number



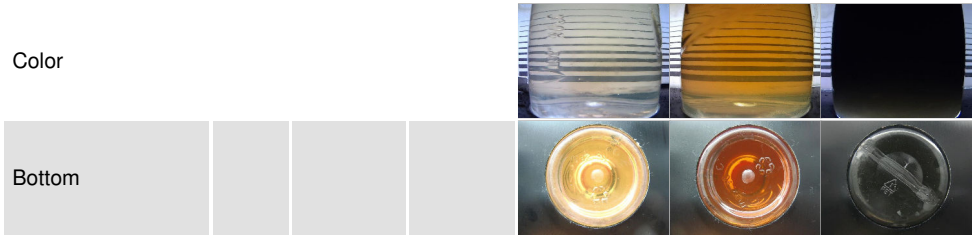
PQ



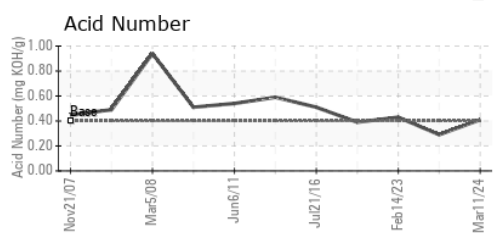
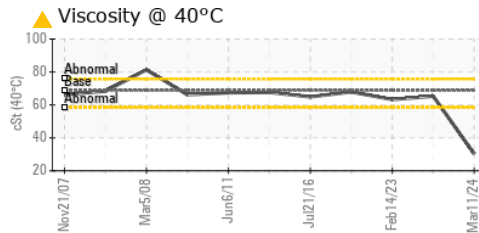
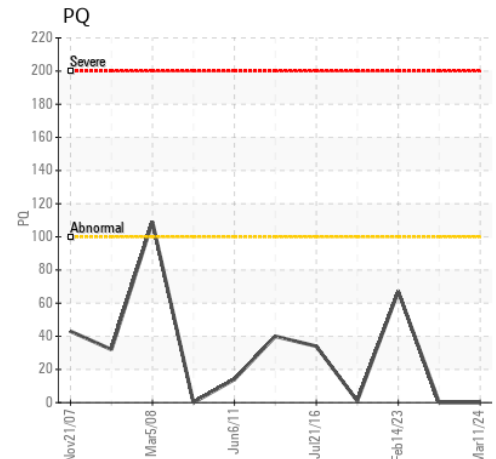
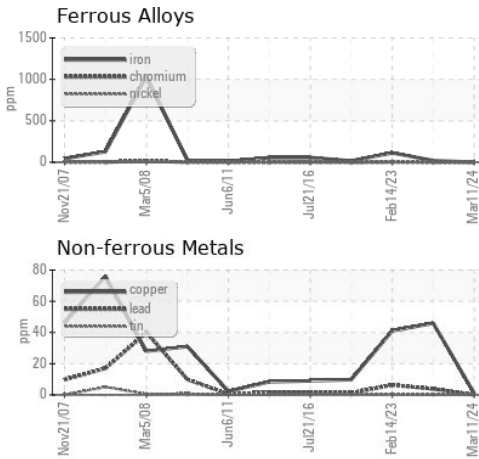
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	.5%
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	68.8 ▲ 30.3	65.3	63.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02622326
Unique Number : 5747445
Test Package : IND 2

Received : 15 Mar 2024
Tested : 18 Mar 2024
Diagnosed : 18 Mar 2024 - Kevin Marson

AV GROUP NB INC.
 103 PINDER ROAD,, NACKAWIC MILL
 NACKAWIC, NB
 CA E6G 1W4
 Contact: Basil Fadulalla
 basil.fadulalla@adityabirla.com

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.

T:
F: