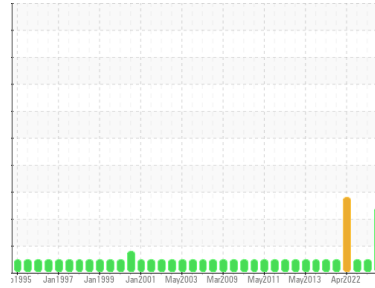




# OIL ANALYSIS REPORT

Sample Rating Trend

**WATER**



Area  
**72 MACHINE ROOM**  
 Machine Id  
**#2 Dryer Section (Reducer) (S/N 725110)**  
 Component  
**Gear Reducer**  
 Fluid  
**ESSO SPARTAN EP 220 (20 GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

Excessive free water present.

### Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC</b>	WC0789979	WC
Sample Date	Client Info		<b>26 Nov 2023</b>	08 May 2023	06 Nov 2022
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	0	0
Iron	ppm	ASTM D5185(m) >250	<b>39</b>	25	25
Chromium	ppm	ASTM D5185(m) >5	<b>2</b>	2	2
Nickel	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185(m) >50	<b>31</b>	27	26
Copper	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m) >5	<b>0</b>	0	<1
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m) .5	<b>7</b>	7	9
Barium	ppm	ASTM D5185(m)	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m) 1.7	<b>12</b>	8	10
Phosphorus	ppm	ASTM D5185(m) 250	<b>322</b>	339	345
Zinc	ppm	ASTM D5185(m) .3	<b>16</b>	12	11
Sulfur	ppm	ASTM D5185(m)	<b>14148</b>	15163	15101
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

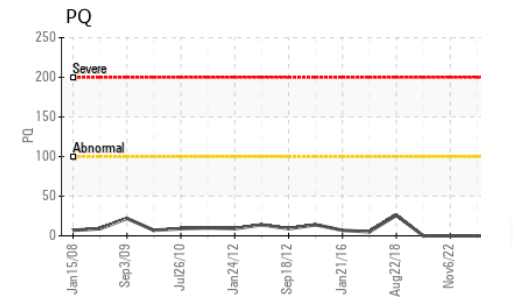
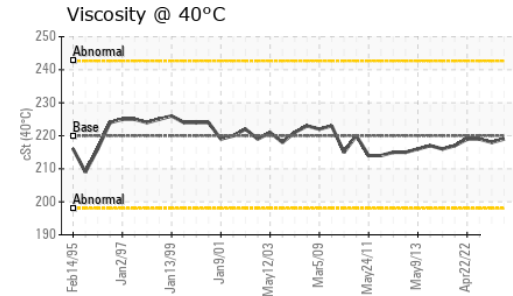
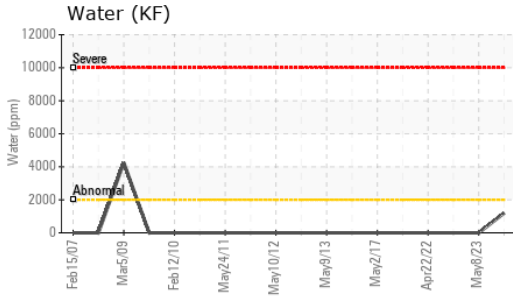
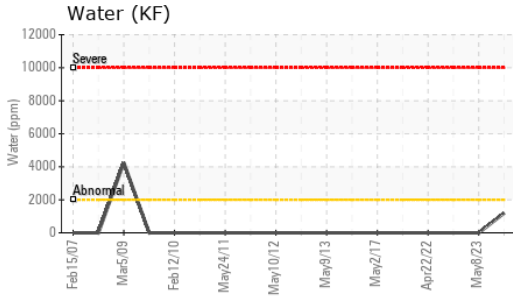
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >60	<b>&lt;1</b>	<1	2
Sodium	ppm	ASTM D5185(m)	<b>1</b>	<1	<1
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	0
Water	%	ASTM D6304* >0.2	<b>0.119</b>	---	---
ppm Water	ppm	ASTM D6304* >2000	<b>1199</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.75	<b>0.76</b>	0.70	0.65



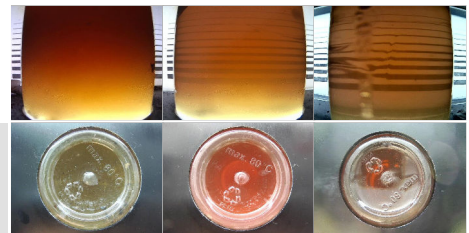
# OIL ANALYSIS REPORT



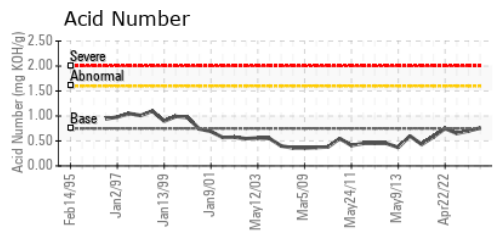
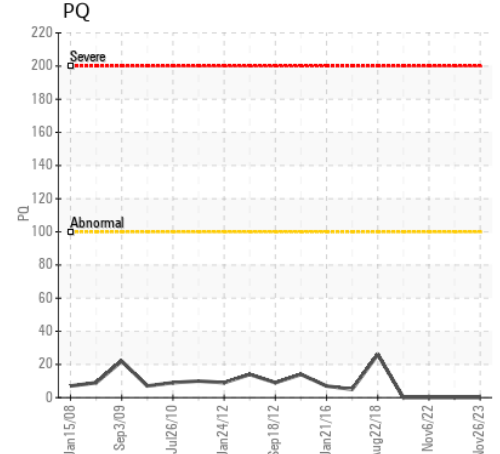
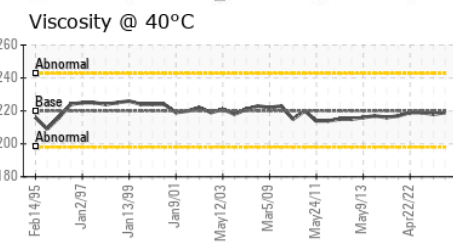
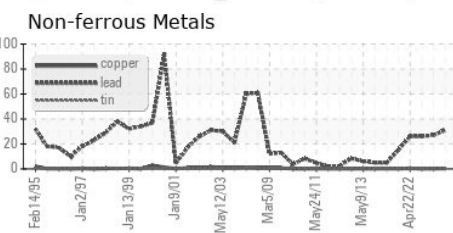
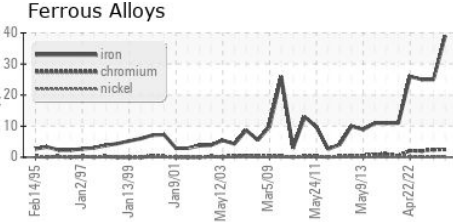
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	.5%	NEG
Free Water	scalar	Visual*		▲ >10%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	219	218

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC  
**Lab Number** : 02606302  
**Unique Number** : 5707388  
**Test Package** : IND 2 ( Additional Tests: KF, TAN Man )  
**Received** : 03 Jan 2024  
**Diagnosed** : 05 Jan 2024  
**Diagnostician** : 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.