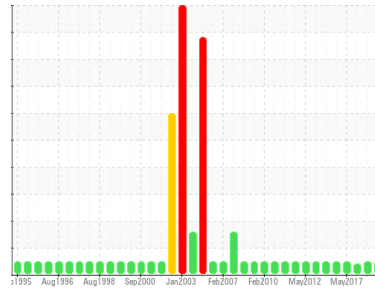




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**71 STOCK PREPARATION**  
 Machine Id  
**Thickener (Reducer) (S/N 715702)**  
 Component  
**Gear Reducer**  
 Fluid  
**ESSO SPARTAN EP 220 (4 GAL)**

## 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		<b>WC</b>	WC0789951	WC
Sample Date	Client Info		<b>03 Oct 2023</b>	23 Mar 2023	14 Sep 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>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>0</b>	0	3
Iron	ppm	ASTM D5185(m) >250	<b>71</b>	32	24
Chromium	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185(m) >5	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m) >50	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m) >50	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185(m) >5	<b>0</b>	0	0
Antimony	ppm	ASTM D5185(m) >5	<b>0</b>	0	<1
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>14</b>	9	4
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m) 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m) 0	<b>9</b>	3	1
Calcium	ppm	ASTM D5185(m) 1.7	<b>5</b>	<1	1
Phosphorus	ppm	ASTM D5185(m) 250	<b>325</b>	354	416
Zinc	ppm	ASTM D5185(m) .3	<b>12</b>	5	3
Sulfur	ppm	ASTM D5185(m)	<b>12752</b>	13162	4916
Lithium	ppm	ASTM D5185(m)	<b>2</b>	<1	1

## CONTAMINANTS

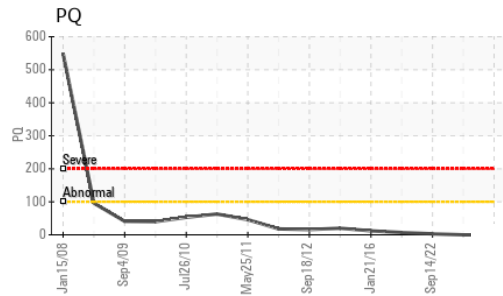
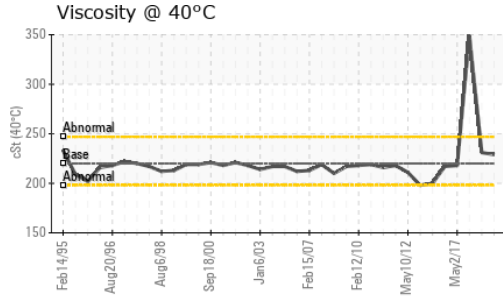
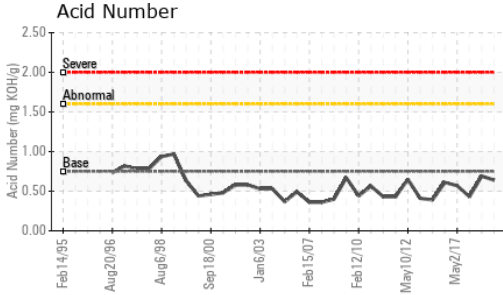
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >60	<b>32</b>	22	20
Sodium	ppm	ASTM D5185(m)	<b>2</b>	1	2
Potassium	ppm	ASTM D5185(m) >20	<b>&lt;1</b>	1	0

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974* 0.75	<b>0.64</b>	0.69	0.43



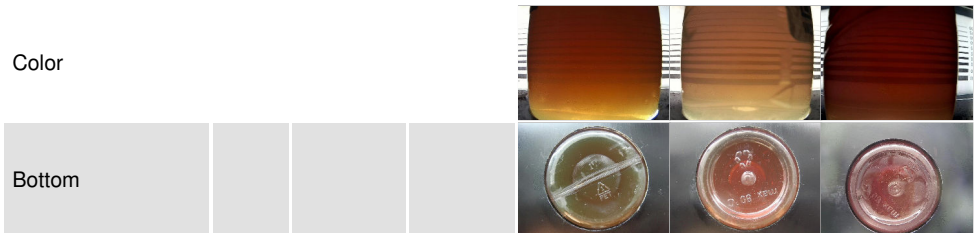
# OIL ANALYSIS REPORT



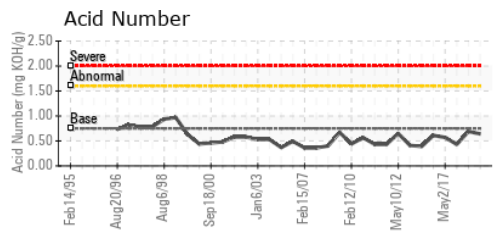
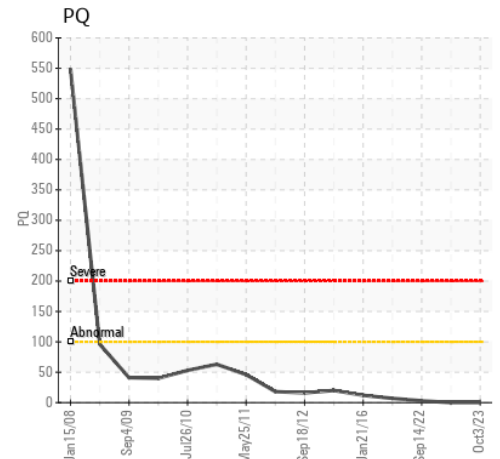
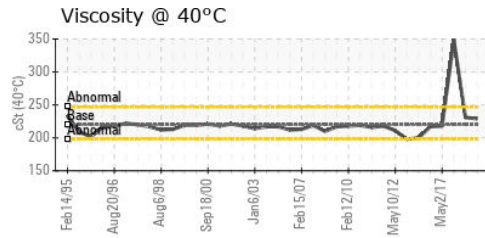
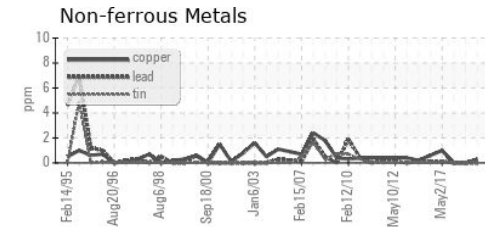
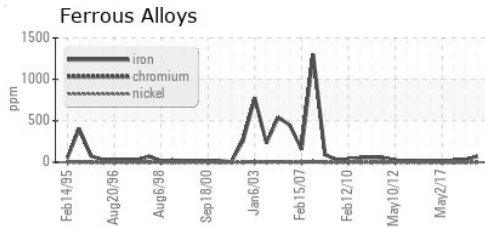
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	220	229	231 ▲ 349

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
 Sample No. : WC  
 Lab Number : 02588033  
 Unique Number : 5657099  
 Test Package : IND 2 ( Additional Tests: TAN Man )

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.