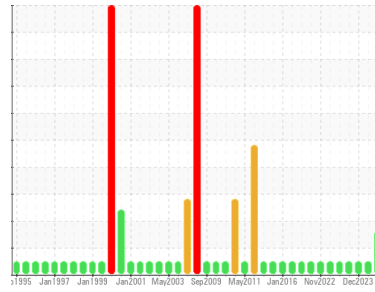




OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Area

72 MACHINE ROOM

Machine Id

Wire Drive Section (Reducer) (S/N 725103)

Component

Gear Reducer

Fluid

ESSO SPARTAN EP 220 (20 GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

Wear

Iron and nickel ppm levels are abnormal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC	WC	WC
Sample Date	Client Info	10 Jun 2024	04 Apr 2024	26 Dec 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	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184*	54	3	4
Iron	ppm	▲ 380	123	108
Chromium	ppm	4	<1	<1
Nickel	ppm	▲ 8	1	1
Titanium	ppm	<1	<1	0
Silver	ppm	0	0	0
Aluminum	ppm	2	1	2
Lead	ppm	18	21	17
Copper	ppm	1	<1	<1
Tin	ppm	0	0	0
Antimony	ppm	0	0	0
Vanadium	ppm	0	0	0
Beryllium	ppm	0	0	0
Cadmium	ppm	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	16	15	15
Barium	ppm	<1	<1	<1
Molybdenum	ppm	0	0	0
Manganese	ppm	2	0	<1
Magnesium	ppm	<1	<1	<1
Calcium	ppm	3	3	3
Phosphorus	ppm	320	330	329
Zinc	ppm	9	9	8
Sulfur	ppm	7389	7232	7548
Lithium	ppm	<1	<1	<1

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	8	7	7
Sodium	ppm	<1	1	<1
Potassium	ppm	<1	<1	<1

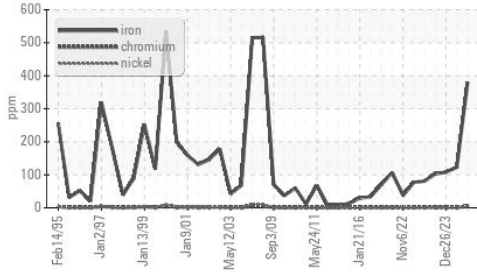
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.66	0.68	0.74

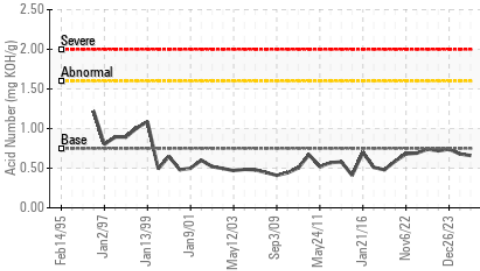


OIL ANALYSIS REPORT

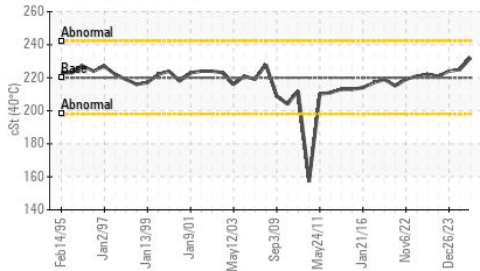
▲ Ferrous Alloys



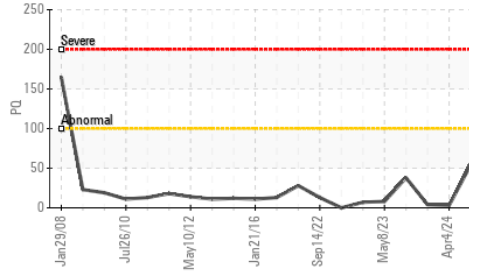
Acid Number



Viscosity @ 40°C



PQ



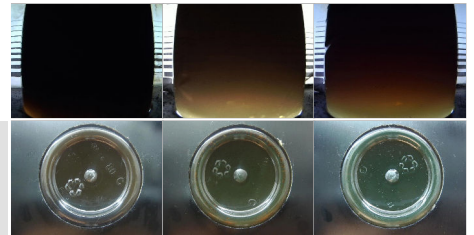
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE
Silt	scalar	Visual*	NONE	VLITE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE
Appearance	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	232	225

SAMPLE IMAGES	method	limit/base	current	history1	history2
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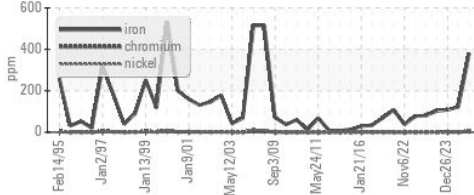
Color

Bottom

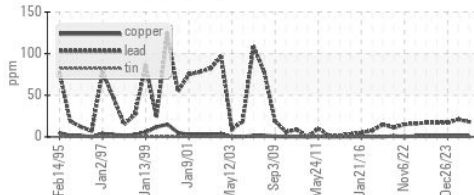


GRAPHS

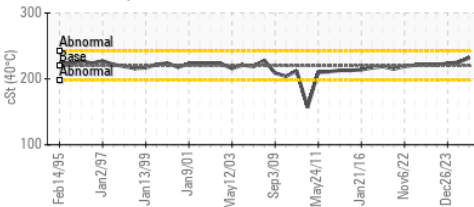
▲ Ferrous Alloys



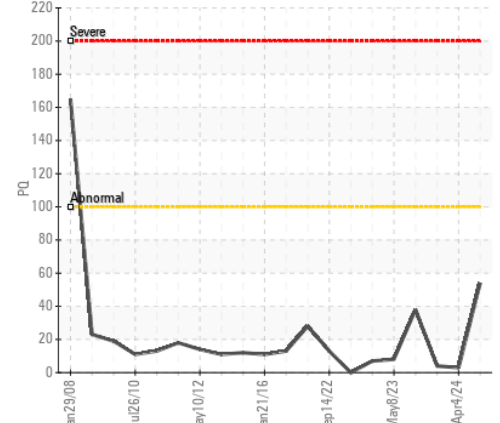
Non-ferrous Metals



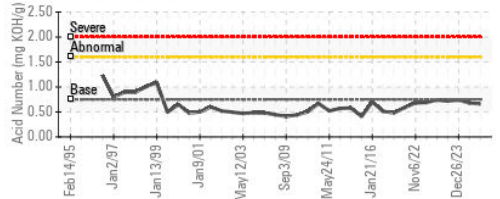
Viscosity @ 40°C



PQ



Acid Number



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC
Lab Number : 02642678
Unique Number : 5800217
Test Package : IND 2 (Additional Tests: TAN Man)
Received : 18 Jun 2024
Tested : 19 Jun 2024
Diagnosed : 19 Jun 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.