

S.O.S.M Services

Sample For: SHOP SAMPLE

ATLANTIC IA 50022 951 PARK DR WILLIAM NEWBURY

> Compartment: Chassis Hydraulic AGCA8204JNT001066

Serial #:

8204 0156980 WN28904

Model #: Unit #:

WO #

Sample #: 150406322 4/20/15

Oil Brand: Date Received:

Oil Blend:

Off Weight

USED AGCHEM PRIME

| Changed Quarks Meter CU FE CR AL St PB NA ANALYSIS COUNT COUNT | CURREN | 4 | MPL | H N | SAMPLE INFORMAT | TON | | WE/ | X ME | WEAR METALS | ANALYSIS | YSIS | | Z, | ARED | | PAR | IICLE IICLE | | Hd | PHYSICAL | _ |
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| Oil Fitr Added Oil PPM PPM PPM PPM PPM PPM PPM PPM PPM PP | Date | Criarige | | OH W | Meter | on e | | ទីក | Chronaium | Aluminum | Silicon | | Podium 5 | | Powdation | ISO | Ē | Ē | | PO-Ferrous | < | A |
| N N 3176 4 4 0 5 12 0 2 0 6 20/16 7223 1250 | ~ | <u>Q</u> | | dded | | <u>Q</u> | | PPM | PPM | ₽PM | PPM | 1 | TTM | 4000 | CAMBRION | Code | o | 17 | | Debils | ١, | 18 |
| | 3/14/15 | z | | | 3176 | | 4 | 4 | 0 | 5 | 12 | 0 | 2 | 0 | 6 | 20/16 | 7223 | 1250 | 535 | <u> </u> | 8.0 | ~ |

Interpretation

unknown, we use the full oil change interval to analyze the sample. Results of latest sample indicate elements tested didn't exceed normal specifications for this compartment. No excessive wear is indicated at this time. When the MILES/HOURS ON OIL data are

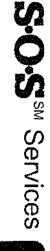
Recommendation

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| T SA | | Added | Quarts | | Ĕ E |
| CURRENT SAMPLE IS INCLUDED IN TRENDING | 3176 | Meter | <u> </u> | | RENDING SAMPLE INFORMATION |
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| TRENE | 4 | MALA |] = r | n | ₩E |
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| | ~ | 778 | Sodium | Z | |
| SEE | 0 | 900 | î | AZA | NFR |
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| REVERSE SIDE FOR TEST EXPLANATIONS | 20/16 | Code | SO | | |
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| | Z | ti | Maria de la companya |] | |



ZIEGLER S-O-S ANALYSIS LAB

901 WEST 94TH STREET MINNEAPOLIS,MN 55420-4299 (952) 888-4121 (800) 352-2812





Sample For: SHOP SAMPLE WILLIAM NEWBURY

ATLANTIC IA 50022 951 PARK DR

> Compartment: Hydraulic System AGCA8204JNT001066

Serial #:

8204 0156980 WN28904

Model #: Unit #:

₩ *

Date Received: Sample #: 150406323 4/20/15

Oil Blend:

Oil Brand:

Oil Weight

USED AGCHEM PRIME

| z | 7.5 N | 7 | 149 | 331 | 2616 | 19/14 | <u></u> | 0 | ω | - | 13 | 4 | 0 | 12 | 6 | | 3176 | , | U U | 3/14/15 |
|-----------------------|-----------------|-----------------|----------|-------|------|-------------|---------|--------|-----|------|----------|------|-------------|------|-----|-------|------------|--------------|-----------|---------------|
| Anti- Water Freeze | Viscosity Preaz | PQ-Ferrous Visc | - 5- Pag | O.H. | 짇 | ISO Code | Oxedion | Seq | PPM | PPM | PPM | PPM | PPM | Medd | PPM | 요요 | Meter | Oil Added | Oil Filtr | Date Taken |
| | 010 | 1631 | - | UN | NOON | | ALTOIS | ANA | ¥ | 8 | တ | | 2 | 71 | 2 | Meter | | Quarts | Changed | |
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Interpretation

Results of latest sample indicate elements tested didn't exceed normal specifications for this unknown, we use the full oil change interval to analyze the sample. compartment. No excessive wear is indicated at this time. When the MILES/HOURS ON OIL data are

Recommendation

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|--|----------|----------------------|-----------|--------|-----------------------------|
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| ENT SA | | Added | Quarts | | MPLE I |
| CURRENT SAMPLE IS INCLUDED IN TRENDING | 3176 | Meter | | | TRENDING SAMPLE INFORMATION |
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| E | 5 | | 8 C | | |
| TREND | 12 | Mdd Mdd | <u> </u> | n | WE |
| NG NG | 0 | PPM | Chromium | Ç | WEAR METALS ANALYSIS |
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| VERSE | ω | Oxidation | | ALTOIO | RARED |
| SIDE | 19/14 | Code | S O | | ; |
| OR TES | 2616 | 5 | = | NOON | PART |
| ST EXPL | 331 | 10 | 5 | · NIC | ICLE |
| REVERSE SIDE FOR TEST EXPLANATIONS | 149 | 15 | | | |
| S | 7 | Dotvis | PO-Famous | | H |
| | 7.5 N | Viscosity | | 1010 | PHYSICAL |
| | | Freeze Water | <u></u> | | (- |
| | z | Yater | | | |



S.O.S. Services

Sample For: WILLIAM NEWBURY SHOP SAMPLE

ATLANTIC IA 50022 951 PARK DR

> Compartment: AGCA8204JNT001066

0156980 Powershift Transmission

> Date Received: Sample #:

150406321 4/20/15

Oil Blend: Oil Brand:

Oil Weight

USED AGCHEM PRIME

₩0 #: Model #: Unit #:

8204 WN28904

Serial #:

| 450 24 6.8 1 | 450 24 6.8 | 450 24 | 450 | | 1640 | 11626 | 21/16 | œ | 0 | 7 | н | 6 | ~ | 0 | 48 | 17 | | 3176 | | _ | _ | 3/14/15 |
|---|-------------------|---|---|-----|--------------|-------|-------|-----------|------|-----|------------|----------|--------|------|---------|-----|-------|-------------------|--------|---------|----------|---------|
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Interpretation

unknown, we use the full oil change interval to analyze the sample. Results of latest sample indicate elements tested didn't exceed normal specifications for this compartment. No excessive wear is indicated at this time. When the MILES/HOURS ON OIL data are

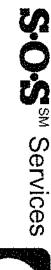
Recommendation

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| NT SA | | Added | Quarts | | PLE I |
| CURRENT SAMPLE IS INCLUDED IN TRENDING | 3176 | Meter | | | RENDING SAMPLE INFORMATION |
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| TREND | 48 | TUM | Iron Chronium | n n | ₩E |
| NG | 0 | 77 X | Chronium | g | WEAR METALS ANALYSIS |
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| | 6 | תית א | Silicon | 2 | ANAL |
| | h—1 | MAA |) [a] [a] | מ | SIS |
| | 7 | MAA | Sodium | Z | |
| SEE F | O | 5901 | | ANAL | NFR. |
| REVERS | 8 | CXBOBXC | | 1010 | RARED |
| REVERSE SIDE FOR TEST EXPLANATIONS | 21/16 | Code | iso O | | |
| FOR TE | 21/16 11626 | 5 | Ħ | ć | PAR. |
| ST EXPL | 1640 | 10 | 3 | Z | PARTICLE |
| ANATION | 450 | 15 | Ë | | |
| ŝ | 24 | Debris | PQ-Famus | | Į. |
| | 5, 8 2 | T RECOUNT | | EO O | PHYSICAL |
| | 2 | Frugzo Y | | | 1 |
| | 22 | LASSEA. | | | |



ZIEGLER S-O-S ANALYSIS LAB

901 WEST 94TH STREET MINNEAPOLIS,MN 55420-4299 (952) 888-4121 (800) 352-2812



150406319 4/20/15

WILLIAM NEWBURY SHOP SAMPLE ATLANTIC IA 50022 951 PARK DR

Sample For:

Unit #: Compartment: Serial #: 0156980 Left Front Planetary AGCA8204JNT001066

Model #:

8204

WN28904

₩ #

Sample #: Date Received:

Oil Blend:

Oil Brand:

Oil Weight

USED AGCHEM PRIME

| CURRENT | | SAMPLE | I | NFORMAT | NO. | | | WE/ | WEAR METALS | TALS | ANALYSIS | YSIS | | | | PARTIC | ARTICLE COUNT | TN | - | PHYSICAL | Ϋ́ | |
|---|-----------|--------|--------------------|---------|------------|--------|----------|----------|-------------|-------------|----------|--------|------------|--------|-------|--------|---------------|-----|------------|------------|----------|--------|
| *************************************** | 2 | ┪ | 2 | | _ | 2 | | 20 | ۸. | 2 | | 110 | | 2 | | | | | | 101 | U | |
| Date | Challence | - | 으로 (18 18 18 | Meter | 9 <u>1</u> | Cobbal | <u> </u> | Clustrum | Aluminum | Silven G | £ 0 | Sedium | Motybdenum | ≅'∑ | ISO | m | Em : | _ | PO-Ferrous | | A E | 1 |
| Taken | ဋ | | Added | | | Mdd | PPM | | Mdd | | Medel | Med | į | τ Σ | Code | o. | 15 | 20 | Debris | 4 accessit | Fraeze * | ğ |
| 3/14/15 | _ | | | 3176 | - | 1 | 679 | 4 | 18 | 66 | 0 | 6 | 0 | 0 | 23/17 | 44908 | 932 | 382 | 275 | 12.1 | z | z — |
| ſ | | - | | | | | | | | | | | | | | | | | | | | |

Interpretation

unknown, we use the full oil change interval to analyze the sample. and Silicon are slightly high; Iron is extremely high. When the MILES/HOURS ON OIL data are The analysis of the oil sample taken from your Left Front Planetary indicates that Aluminum. Chrome

Recommendation

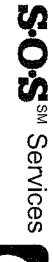
pieces and other abnormal conditions, also check magnetic drain plug. Appears some dirt is getting into compartment. resample new oil after 100 hours. When you drain compartment, check for visible metal If no problem is found

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|--|-------------|------------|------------------|----------|-----------------------------|
| | 3/14/15 | }aken | Date | | TREND |
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| NT S | | Added | Starts | | PLE I |
| CURRENT SAMPLE IS INCLUDED IN TRENDING | 3176 | Merca | | | TRENDING SAMPLE INFORMATION |
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| TREN | 679 | TT:V | i i i | 11 | |
| DING | 4 | Ţ | Chemium Aluminum | a C | W |
| | 18 | ריריין. | Aluminum | IV | WEAR METALS ANALYSIS |
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| | 0 | ָּדָ קַ | | g | ANAL |
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| SE SE | 0 | τ '₹ | Molybdonur | 3 | |
| E REV | 6 | MAL | 2 5 | 2 | |
| SEE REVERSE SIDE FOR TEST EXPLANATIONS | 23/17 44908 | Code | | | |
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| TEST E | 932 | 15 | Ē | | PARTICLE COUNT |
| XPLANAT | 382 | 20 | E . | | N |
| SNOF | 275 | Debris | РФ-Fempus | | - |
| | 275 12.1 N | - Hoose | Visconità | 10010 | PHYSICAL |
| | z | E-19829 | Ą. | ď | 'n. |
| | Z | ** | * | | |



ZIEGLER S-O-S ANALYSIS LAB 901 WEST 94TH STREET

901 WEST 94TH STREET MINNEAPOLIS,MN 55420-4299 (952) 888-4121 (800) 352-2812



ACTION

150406320 4/20/15

SHOP SAMPLE
WILLIAM NEWBURY
951 PARK DR
ATLANTIC IA 50022

Sample For:

Serial #: AGCA8204JNT001066 Compartment: Right Front Planetary

0156980 8204 WN28904

Sample #:
Date Received:
Oil Brand:

Oil Blend:

Oil Weight

USED AGCHEM PRIME

₩0 # Model #:

Unit #:

| Metter CU FE CR AL SI PB NA MO SN on Copper ton Concession Autonomic Silicon Lead Sodium Morphdorum Tin ISO Oil PPM PPM PPM PPM PPM PPM PPM PPM Code 3 612 4 11 51 0 7 1 0 23/20 | CURREN | T SA | SAMPLE I | NFORMA | TION | | | WEAR | AR ME | ETALS | ANALYSIS | YSIS | | | | PARTIC | PARTICLE COUN | NT | | | PHYSICAL |
|---|---------|--------|----------|--------|---------|--------|-----|------|----------------------|--------|----------|------|------------|--------|-------|--------|---------------|--------|-------|------------|-------------|
| Oil Filtr Added Oil PPM PPM PPM PPM PPM PPM PPM PPM PPM PP | | Change | | | Melek | 2 | | | Δ | 5 | gg | | 5 | n Z | | | 1 | | | | T.C. |
| OII FIII Added OII PPM PPM PPM PPM PPM PPM PPM PPM Code | | Charge | L | Meler | 3 2 | Copper | ₹ F | | Alumanum | Sticon | £ 0 | | Malybdonur | 3 2 | iso | | | l um | | LW1 | UM Po-Femus |
| 3 612 4 11 51 0 7 1 0 23/20 | _ | | | | <u></u> | Mdd | PPM | | PPM | PPM | PPM | | PPM | PPM | Code | ທີ | | 15 | 75 20 | | 20 |
| | 3/14/15 | _ | | 3176 | | ယ | 612 | 4- | استو استو استو | 51 | 0 | 7 | | 0 | 23/20 | 6997 | თ | 6 5633 | 51 | 5 5633 505 | 5633 |

Silicon are slightly high: Iron is extremely high. When the MILES/HOURS ON OIL data are unknown, we use the full oil change interval to analyze the sample. The analysis of the oil sample taken from your Right Front Planetary indicates that Chrome and Interpretation

Recommendation

pieces and other abnormal conditions, also check magnetic drain plug. Appears some dirt is getting into compartment. resample new oil after 100 hours. When you drain compartment, check for visible metal If no problem is found

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| | 3/14/15 | Jaken | Date | | TREN |
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| ENT S | <u></u> | Added | Quarts | | APLE IN |
| CURRENT SAMPLE IS INCLUDED IN TRENDING | 3176 | Meter ; | | | TRENDING SAMPLE INFORMATION |
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| DED N | သ | | Copper | 110 | |
| TREN | 612 | MAG |]]§r | | |
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| SE | Ъ | \ Z | Modybdenus | 2 | |
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| TEST E | 5633 | 15 | ш | | PARTICLE COUNT |
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| rions | 214 | | PQ-Fempus | ľ | |
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| L | z | waten | <u>.</u> | | |



SOS Services

Sample For:

WILLIAM NEWBURY ATLANTIC IA 50022 951 PARK DR SHOP SAMPLE

> Unit #: Serial #: Compartment: Rear Differential AGCA8204JNT001066

Model #:

8204 WN28904

¥.

0156980

Oil Brand: Date Received: Sample #:

> 150406318 4/20/15

Oil Weight Oil Blend:

USED AGCHEM PRIME

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|----------------------------|----------|---|-----------|---------|-----------|
| CURRE | | Talan | I GXCII | 3/14/15 | 6 F 1 F 6 |
| N S | Changed | | Ci) F | = | |
| ¥ | • | _ | ₽Nr | | |
| Ĕ Z | Quarts | ₽ | Added | | |
| CURRENT SAMPLE INFORMATION | | Meter | | 3176 | 4 |
| NO. | Meter | 3 | ₽ | | |
| | S | Copper | TV TV | <u></u> | , |
| | H. | 1 2 | Li Li Mil | 1503 | 1000 |
| WE, | | Chomum | | ယ | 4 |
| WEAR METALS ANALYSIS | 2 | Aluminum | Ţ ₹ | w | , |
| TALS | <u>s</u> | | | ၾ | 4 |
| TALS ANALYSIS | BG | toat Sodium | 77 791 | 0 | |
| YSIS | × | Sodium | 77152 | ئسېز | |
| | 8 | Molybdenum | 7 | œ | |
| | SZ. | ֖֖֓֞֝֞֞֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓ | TT W | 0 | Ļ |
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| PARTICLE COUNT | | นัก | ō | 99999 | |
| Ž | | HM. | | 99999 | |
| | | PO-Formus | Debris | 1962 | |
| NSTH4 | 15313 | Viscosity | | 23.1 | |
| ZA. | Ü | Antr Water | Freeze | z | |
| | | Water | | z | |
| | | | | | _ |

Interpretation

high and your particle count is high. The analysis of the oil sample taken from your Rear Differential indicates that Iron is extremely

Recommendation

check magnetic drain plug. When you drain compartment, check for visible metal pieces and other abnormal conditions, also If no problem is found resample new oil after 100 hours.

| | 3/14/15 | taken | Date | | TREN |
|--|-------------------------|------------|------------------------|--------|-----------------------------|
| SE E | C | Oil Filtr | Changed | | TRENDING SAMPLE INFORMATION |
| RENT | | h Added | | | MPLE |
| SAMP | (1) | | | | INFOR |
| LE IS | 3176 | weter | <u> </u> | | RMATIC |
| INCLU | | ₽: | Meter | | ž |
| DED IN | L-I | Mad | oppe Co | 5 | |
| CURRENT SAMPLE IS INCLUDED IN TRENDING | 1503 | Wald | Iron Chramium Aluminum | 13 | |
| DING | 3 | 773 | Chromium | g | ¥ |
| | ယ | 778 | Aluminum | ١٧. | EAR M |
| • | 38 | MAA |) Si C | 2 | ETALS |
| | 0 | TTM |) - | ָ ב | WEAR METALS ANALYSIS |
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| SE | æ | דע∑. | Sodium Xelybdanum | Š | : |
| E REV | 0 | T M | 2 2 | ŝ | |
| SEE REVERSE SIDE FOR TEST EXPLANATIONS | 24/24 | Code | ISO | | |
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| TEST E | 99999 | 15 | Ē | | PARTICLE COUNT |
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| | 23.1 | Albertacia | | 15310 | PHYSICAL |
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| | 2 | 1 | 5 | | |





Sample For: WILLIAM NEWBURY SHOP SAMPLE

ATLANTIC IA 50022 951 PARK DR

> Compartment: Serial #: Diesel Engine AGCA8204JNT001066

Model #: Unit #: 8204

¥0 #:

WN28904 0156980

> Date Received: Sample #: 150406317 4/20/15

Oil Weight Oil Blend:

Oil Brand:

USED AGCHEM PRIME

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|----------|---------------------|------------|-------------|-----------------|
| 3/14/15 | Taken | Date | | CUR |
| C | 10 | 0.5 | 5 | REN |
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| | Added | <u></u> | O Dad | |
| 3176 | | Meter | | IFORMATI |
| | | 90.00 | Matar | S N |
|) | PPM | Potaestum | | |
| 0 | Mdd | Copper | 2 | |
| 4 | | Sodium | | WEA |
| 13 | | ā | | RME |
| 0 | Mdd | Chrombum | ם ט | TALS |
| 2 | Mdd | Akumisum | <u>></u> | ANAL |
| 2 | - | Silicon | | SIS |
| 0 | Ϋ́ Σ | 8.0 | D | |
| 0 | \ \frac{1}{N} | <u> </u> | n Z | |
| 84 | 2001 | | 2 | Z |
| 22 | Sulfation Oxidation | : | NALYSE | NFRARE |
| 13 | Cyndalion | | Ž. | 9 |
| 0 | Debis | PO-Femous | | |
| 0 13.6 | Kusmacia | Arth- Fuel | <u></u> | PHYSICAL |
| z | DZB414 | Ara | 1000 | Ĭς |
| 22 | Dauson | Fuel | | Ι |
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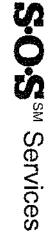
Interpretation

sample. When the MILES/HOURS ON OIL data are unknown, we use the full oil change interval to analyze the The analysis of the oil sample taken from your Diesel Engine indicates that Soot is slightly high.

Recommendation

| | | | | \neg | |
|--|-------------|---------------------|------------|--------|-----------------------------|
| | 3/14/15 | taken | Date | | TR. |
| CUR | c | <u>Q</u> | Changed | 2 | NIGN |
| RENT | C | F⊪ker | nged | | G SA |
| SAMPL | | Added | Oi oi |) | MPLE II |
| CURRENT SAMPLE IS INCLUDED IN TRENDING | 3176 | ZI C C C C | | | TRENDING SAMPLE INFORMATION |
| NI G3O | | 오 | on on | • | Ž |
| TREND | ⊢ -4 | TTM. | Potassium | × | |
| ING | 0 | MAG | Copper | 15 | |
| | 4 | MAH | Sodium | AN. | WE/ |
| | 13 | TTM | ا ق | n | R ME |
| | 0 | MAG | Chromium | 3 | TALS |
| | 22 | MAH | Aluminum | ≥ | WEAR METALS ANALYSIS |
| SEE | 2 | | 7 | 2 | SIS |
| REVER | 0 | PPM | - E | P | |
| SE SID | 0 | PPM | 3 | Z. | |
| FOF | 84 | Soot | | ≥ | : Z |
| TES. | 22 | Sulfation Oxidation | | NAL Y | NFRARED |
| EXP | 13 | Охиатоп | : | ŭ | Ö |
| REVERSE SIDE FOR TEST EXPLANATIONS | 0 | Debns | PQ-Ferrous | | |
| SNC | 0 13.6 | Viscosity | | - [| PHYSICAL |
| | 22 | Frauza Disction | Anti- Fuol | EUIU | įξ |
| | Z | Daution | | | 1 |
| | z z | water | | | |





Sample For:

951 PARK DR WILLIAM NEWBURY SHOP SAMPLE ATLANTIC IA 50022

> Compartment: Serial #: Radiator AGCA8204JNT001066

Model #: Unil # 8204 0156980

¥.0 USED AGCHEM PRIME WN28904

> Sample #: 150490493 4/20/15 ACTION

Date Taken Service Meter: Date Received: 3/16/15 3176

Hours on Sample:

ELC

Glycol Concentration (%)
Ethylene Glycol Assumed
Unders Specified Otherwise Freeze Point (°F) Boil Point (°F) 0.0 psi 238 - 88 ტ დ % (30 - 65%)Conductivity (µmhos/cm) Coolant Properties 呈 1532 9.0 (<7500) (7.0 - 11.0)Supplemental Coolant Additive (ppm) Visual Contamination Color ORANGE CLEAR 2165 See Back Charts

Interpretation

Test result show Glycol 94 i s higher than recommended

Reduce your Glycol % by draining some coolant and adding deionized or distilled water. Recommendation

| TRENDING SAMPLE INFORMATION | LE INFOR | MATION | | | | | | | COOLAN | COOLANT ANALYSIS | | |
|---|-------------|--|-----------|--------|---------|-----|---------|-----|--------|--|--------------|----------------------|
| Date Taken | Changed | Meter | Hours | GLYC | Ŧ | BP | CONDUCT | Đ. | SCA | Calor | | Visual Contamination |
| | Coal Filter | Neadility | | : - | | | | | | | | |
| 3/16/15 U | u | 3176 | 0 | 68 | - 88 | 238 | 1532 | 9.0 | 2165 | ORANGE | ELC | CLEAR |
| *************************************** | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | - 1 | | | | | | | | | | | |
| | Ω | CURRENT SAMPLE IS INCLUDED IN TRENDING | IS INCLUE | Ē | TRENDIN | ด็ | | | SEE R | SEE REVERSE SIDE FOR TEST EXPLANATIONS | R TEST EXPLA | NATIONS |