

#### Machine Id **AV south agg belt** Component **Gearbox** Fluid **CHEVRON RANDO HD 68 (--- GAL)**

#### RECOMMENDATION

No corrective action is recommended at this time. 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.

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# FLUID CONDITION

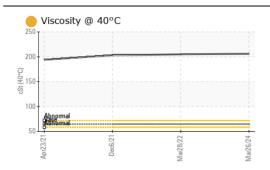
Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The condition of the oil is acceptable for the time in service.

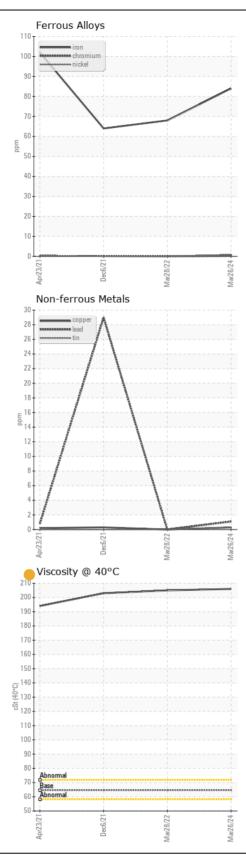
Sample DateClient Info26 Mar 202428 Mar 202206 Dec 2024Machine AgehrsClient Info0000Oil AgehrsClient Info0000Filter AgehrsClient InfoNot ChangdNot ChangdN/AFilter ChangedClient InfoNot ChangdNot ChangdN/AFilter ChangedClient InfoNot ChangdNot ChangdN/ASample StatusClient InfoN/AATTENTIONABNORMALIronppmASTM D5185m>200846864ChromiumppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1AuminumppmASTM D5185m>25332LeadppmASTM D5185m>5010<1NadaiumppmASTM D5185m>10<10<1VanadiumppmASTM D5185m>10<10<1VanadiumppmASTM D5185m>10<10<1Yellow Metalscala*VisualNONENONENONENONESiliconppmASTM D5185m>50412320PotassiumppmASTM D5185m>504100SiliconppmASTM D5185m>504100							
Sample DateClient Into26 Mar 202228 Mar 202206 Dec 2021Machine AgehrsClient Into0000Oil AgehrsClient Into0000Filter AgehrsClient IntoMar ChangedNor ChangedNor ChangedNor ChangedOil ChangedClient IntoImageNor ChangedNor ChangedNor ChangedNor ChangedFilter ChangedClient IntoImageNor ChangedNor ChangedNor ChangedFilter ChangedClient IntoImageNor ChangedNor ChangedNor ChangedFilter ChangedPmASTM D5185>200846864ChromiumppmASTM D5185>10c10c1NickelppmASTM D5185>10c10c1NickelppmASTM D5185>50110c1AluminumppmASTM D5185>200c10c1ItaniumppmASTM D5185>200c100VanadiumppmASTM D5185>200c100VanadiumppmASTM D5185>200c100VanadiumppmASTM D5185>200c100VanadiumppmASTM D5185>200c100VanadiumppmASTM D5185>204100VanadiumppmASTM D5185>20A10 <th>Test</th> <th>UOM</th> <th>Method</th> <th>Limit/Abn</th> <th>Current</th> <th>History1</th> <th>History2</th>	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine Age Oil Age hrsClient InfoO00Oil Age Filter AgehrsClient InfoO00Filter AgehrsClient InfoNot ChangedNot ChangedN/AFilter ChangedClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185>2008466864ChromiumppmASTM D5185>10<10<1NickelppmASTM D5185>10<10<1NickelppmASTM D5185>10<10<1SilverppmASTM D5185>5010<1AluminumppmASTM D5185>5010<1AgrandiumppmASTM D5185>10<10<1Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>204100Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>204100Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>204100Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>20410NONE	Sample Number		Client Info		PCA0082754	PCA0069543	PCA0052968
Oil Age Filter AgehrsClient Info000Filter AgehrsClient InfoNANAChangdN/AFilter ChangedIClient InfoN/AN/AN/ASample StatusClient InfoN/AN/AN/AIronppmASTM D5185>200846864ChromiumppmASTM D5185>10<10<1NickelppmASTM D5185>10<10<1NickelppmASTM D5185<10<10SilverppmASTM D51855010<1AuminumppmASTM D5185>5010<1AluminumppmASTM D5185>5010<1TinppmASTM D5185>50100<1TinppmASTM D5185>501000VandaulumppmASTM D5185>501000Valder Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>50412320PotassiumppmASTM D5185>50412320PotassiumppmASTM D5185>50412320PotassiumppmASTM D5185>504100SiliconppmASTM D5185>50100Sodium <t< th=""><th>Sample Date</th><th></th><th>Client Info</th><th></th><th>26 Mar 2024</th><th>28 Mar 2022</th><th>06 Dec 2021</th></t<>	Sample Date		Client Info		26 Mar 2024	28 Mar 2022	06 Dec 2021
Filter Age Di Client InfoDDDDClient InfoNot ChangdNot ChangdN/AN/AFilter ChangedClient InfoN/AN/AN/ASample StatusATTENTIONATTENTIONABNORMALIronppmASTM D5185m>20084688644ChromiumppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1SilverppmASTM D5185m>5010<1AluminumppmASTM D5185m>5010<1LeadppmASTM D5185m>10<10<1TinppmASTM D5185m>10<10<1VanadiumppmASTM D5185m>10<100VanadiumppmASTM D5185m>50100Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>50412320PotassiumppmASTM D5185m>50412320PotassiumppmASTM D5185m>504100SiliconppmASTM D5185m>50410NONESiliconppmASTM D5185m>50A00PotassiumppmASTM D5185m>50 <th>Machine Age</th> <th>hrs</th> <th>Client Info</th> <th></th> <th>0</th> <th>0</th> <th>0</th>	Machine Age	hrs	Client Info		0	0	0
Cli Changed Filter ChangedClient InfoNot ChangNot ChangedN/AFilter ChangedClient InfoN/AN/AN/AN/ASample StatusATTENTIONATTENTIONABNORMALIronppmASTM D5185m>2008468644ChromiumppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1SilverppmASTM D5185m>5010<1AluminumppmASTM D5185m>5010<1LeadppmASTM D5185m>5010<1TinppmASTM D5185m>10<100VanadiumppmASTM D5185m>50100VanadiumppmASTM D5185m>50100Vellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>50412320PotassiumppmASTM D5185m>50412320PotassiumppmASTM D5185m>50412320PotassiumppmASTM D5185m>504100SiliconppmASTM D5185m>504100PotassiumppmASTM D5185m>50100Solico	Oil Age	hrs	Client Info		0	0	0
Filter ChangedClient InfoN/AN/AN/AN/ASample StatusATTENTIONATTENTIONATTENTIONATTENTIONATTENTIONATTENTIONIronppmASTM D5185m>200846864ChromiumppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10<1SilverppmASTM D5185m>5010<1AluminumppmASTM D5185m>200<100<1AluminumppmASTM D5185m>200<100<1YanadiumppmASTM D5185m>10<10<1ppmASTM D5185m>10<10<10VanadiumppmASTM D5185m>10<1000VanadiumppmASTM D5185m>50412320Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>204000WaterWC Method>.2NEGNONENONENONESiliconppmASTM D5185m>20400WaterWC Method>.2NEGNONENONESoliduscalar*VisualNONENONENONENONESoliduscalar*VisualNORE <t< th=""><th>Filter Age</th><th>hrs</th><th>Client Info</th><th></th><th>0</th><th>0</th><th>0</th></t<>	Filter Age	hrs	Client Info		0	0	0
Sample StatusATTENTIONATTENTIONABNORMALIronppmASTM D5185m>200846.836.44ChromiumppmASTM D5185m>10<10<1NickelppmASTM D5185m>10<10.0<1NickelppmASTM D5185m>10<10.0<1SilverppmASTM D5185m>2033.32LeadppmASTM D5185m>20<10.0<1AluminumppmASTM D5185m>20<10.0<1TinppmASTM D5185m>20<10.0<1YanadiumppmASTM D5185m>10<1000VanadiumppmASTM D5185m>20<10.00VanadiumppmASTM D5185m>20A12.32.0Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>204400VaterWC Method>.2NEGNONENONENONESiliconppmASTM D5185m>204400VaterWC Method>.2NEGNONENONENONESiliconppmASTM D5185m>204400Debrisscalar*VisualNORENONENONENONEAppearancescalar*VisualNORENORENORENORE </th <th>Oil Changed</th> <th></th> <th>Client Info</th> <th></th> <th>Not Changd</th> <th>Not Changd</th> <th>N/A</th>	Oil Changed		Client Info		Not Changd	Not Changd	N/A
Iron     ppm     ASTM D5185m     >200     84     668     64       Chromium     ppm     ASTM D5185m     >10     <1     0     <1       Nickel     ppm     ASTM D5185m     >10     <1     0     <1       Nickel     ppm     ASTM D5185m     >10     <1     0     <1       Silver     ppm     ASTM D5185m     >25     3     33     2       Lead     ppm     ASTM D5185m     >50     1     0     <1       Tin     ppm     ASTM D5185m     >50     1     0     <1       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NONE     NONE     NONE       Yellow Metal <td< th=""><th>Filter Changed</th><th></th><th>Client Info</th><th></th><th>N/A</th><th>N/A</th><th>N/A</th></td<>	Filter Changed		Client Info		N/A	N/A	N/A
ChromiumppmASTM D5185m>10<1	Sample Status				ATTENTION	ATTENTION	ABNORMAL
ChromiumppmASTM D5185m>10<1	Iron	maa	ASTM D5185m	>200	84	68	64
NickelppmASTM D5185m>10<1	Chromium		ASTM D5185m	>10	<1	0	<1
TitaniumppmASTM D5185m<	Nickel		ASTM D5185m	>10	<1	0	0
Silver     ppm     ASTM D5185m     >20     3     3     2       Lead     ppm     ASTM D5185m     >50     1     0     29       Copper     ppm     ASTM D5185m     >200     <1     0     29       Copper     ppm     ASTM D5185m     >200     <1     0     <1       Tin     ppm     ASTM D5185m     >10     <1     0     <1       Vanadium     ppm     ASTM D5185m     >10     <1     0     0     0       White Metal     scalar     *Visual     NONE     NONE     NONE     NONE     NONE     NONE       Yellow Metal     scalar     *Visual     NONE     NORE     NORE     NORE     NORE     NON	Titanium		ASTM D5185m		<1	0	<1
Aluminum     ppm     ASTM D5185m     >25     3     3     2       Lead     ppm     ASTM D5185m     >50     1     0     29       Copper     ppm     ASTM D5185m     >200     <1     0     <1       Tin     ppm     ASTM D5185m     >10     <1     0     0     0       Vanadium     ppm     ASTM D5185m     >10     <1     0     0     0       Vanadium     ppm     ASTM D5185m     >10     <10     0	Silver		ASTM D5185m		0	0	<1
Lead     ppm     ASTM D5185m     >50     1     0     29       Copper     ppm     ASTM D5185m     >200     <1	Aluminum		ASTM D5185m	>25	3	3	2
Tin     ppm     ASTM D5185m     >10     <1	Lead	ppm	ASTM D5185m	>50	1	0	29
Vanadium     ppm     ASTM D5185m     O     O     O       White Metal     scalar     *Visual     NONE     NORM	Copper	ppm	ASTM D5185m	>200	<1	0	<1
White Metalscalar*VisualNONENONENONENONEYellow Metalscalar*VisualNONENONENONENONENONESiliconppmASTM D5185m>50412320PotassiumppmASTM D5185m>20400WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENORMLNONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLSodiumppmASTM D5185m0000BariumppmASTM D5185mI10<1ManganeseppmASTM D5185m2113330CalciumppmASTM D5185m23924SulfurppmASTM D5185m23924SulfurppmASTM D5185m23924	Tin	ppm	ASTM D5185m	>10	<1	0	0
Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m<>50412320PotassiumppmASTM D5185m<>20400WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONEMODEFSand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLOdorscalar*VisualNORLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGSodiumppmASTM D5185m0000BariumppmASTM D5185m0001ManganeseppmASTM D5185m<110<1MagnesiumppmASTM D5185m2113330CalciumppmASTM D5185m4435538PhosphorusppmASTM D5185m23924SulfurppmASTM D5185m23924SulfurppmASTM D5185m23924	Vanadium	ppm	ASTM D5185m		0	0	0
SiliconppmASTM D5185m>50412320PotassiumppmASTM D5185m>20400WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLSodiumppmASTM D5185m0000BariumppmASTM D5185m0000MolybdenumppmASTM D5185m110<1	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium     ppm     ASTM D5185m     >20     4     0     0       Water     WC Method     >0.2     NEG     NEG     NEG     NEG       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     MODEF       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML <td< th=""><th>Yellow Metal</th><th>scalar</th><th>*Visual</th><th>NONE</th><th>NONE</th><th>NONE</th><th>NONE</th></td<>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium     ppm     ASTM D5185m     >20     4     0     0       Water     WC Method     >0.2     NEG     NEG     NEG     NEG       Silt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Debris     scalar     *Visual     NONE     NONE     NONE     NONE     MODEF       Sand/Dirt     scalar     *Visual     NONE     NONE     NONE     NONE     NONE       Appearance     scalar     *Visual     NORML     NORML <td< th=""><th>Silicon</th><th>nom</th><th>ASTM D5185m</th><th>&gt;50</th><th>41</th><th>23</th><th>20</th></td<>	Silicon	nom	ASTM D5185m	>50	41	23	20
WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONEMODEFSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0000BariumppmASTM D5185m110<1116ManganeseppmASTM D5185m211333030CalciumppmASTM D5185m264274313PhosphorusppmASTM D5185m23924SulfurppmASTM D5185m23924							
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Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m0000BoronppmASTM D5185m47749916BariumppmASTM D5185m000MolybdenumppmASTM D5185m110<11MagnesiumppmASTM D5185m21113330CalciumppmASTM D5185m44435538PhosphorusppmASTM D5185m233924SulfurppmASTM D5185m144181541013957	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORML<	Debris	scalar	*Visual	NONE	NONE	NONE	A MODER
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEGSodiumppmASTM D5185m00000BoronppmASTM D5185m474916BariumppmASTM D5185m0000MolybdenumppmASTM D5185m1001ManganeseppmASTM D5185m<1130<1130CalciumppmASTM D5185m211333038PhosphorusppmASTM D5185m264274313ZincppmASTM D5185m23924SulfurppmASTM D5185m144181541013957	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Water     scalar     *Visual     >0.2     NEG     NEG     NEG       Sodium     ppm     ASTM D5185m     0     0     0       Boron     ppm     ASTM D5185m     47     49     16       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     1     0     <1       Manganese     ppm     ASTM D5185m      <1     <1     <1       Magnesium     ppm     ASTM D5185m      21     13     30       Calcium     ppm     ASTM D5185m      264     274     313       Phosphorus     ppm     ASTM D5185m     23     9     24       Sulfur     ppm     ASTM D5185m     14418     15410     13957	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium     ppm     ASTM D5185m     0     0     0       Boron     ppm     ASTM D5185m     47     49     16       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     1     0     <1       Magnesium     ppm     ASTM D5185m     21     13     30       Calcium     ppm     ASTM D5185m     44     35     38       Phosphorus     ppm     ASTM D5185m     264     274     313       Zinc     ppm     ASTM D5185m     23     9     24       Sulfur     ppm     ASTM D5185m     14418     15410     13957	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron     ppm     ASTM D5185m     47     49     16       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     1     0     <1	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Boron     ppm     ASTM D5185m     47     49     16       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     1     0     <1       Manganese     ppm     ASTM D5185m     11     <1     <1       Magnesium     ppm     ASTM D5185m     21     13     30       Calcium     ppm     ASTM D5185m     44     35     38       Phosphorus     ppm     ASTM D5185m     264     274     313       Zinc     ppm     ASTM D5185m     23     9     24       Sulfur     ppm     ASTM D5185m     14418     15410     13957	Sodium	maa	ASTM D5185m		0	0	0
Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     1     0     <1			ASTM D5185m				
Molybdenum     ppm     ASTM D5185m     1     0     <1			ASTM D5185m				
Manganese     ppm     ASTM D5185m     <1	Molybdenum		ASTM D5185m		1	0	<1
Calcium     ppm     ASTM D5185m     44     35     38       Phosphorus     ppm     ASTM D5185m     264     274     313       Zinc     ppm     ASTM D5185m     23     9     24       Sulfur     ppm     ASTM D5185m     14418     15410     13957	Manganese		ASTM D5185m		<1	<1	<1
Phosphorus     ppm     ASTM D5185m     264     274     313       Zinc     ppm     ASTM D5185m     23     9     24       Sulfur     ppm     ASTM D5185m     14418     15410     13957	Magnesium		ASTM D5185m		21	13	30
Zinc     ppm     ASTM D5185m     23     9     24       Sulfur     ppm     ASTM D5185m     14418     15410     13957	Calcium	ppm	ASTM D5185m		44	35	38
Sulfur     ppm     ASTM D5185m     14418     15410     13957	Phosphorus	ppm	ASTM D5185m		264	274	313
	Zinc	ppm	ASTM D5185m		23	9	24
Visc @ 40°C cSt ASTM D445 64.6   206   205   203	Sulfur	ppm	ASTM D5185m		14418	15410	13957
	Visc @ 40°C	cSt	ASTM D445	64.6	<b>e</b> 206	205	203

Submitted By: senia zimmer

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ATTENTION

Page 1 of 2





**AVR - APPLE VALLEY READY MIX** Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 14698 GALAXY AVE : PCA0082754 : 19 Apr 2024 Lab Number : 06155346 Tested : 24 Apr 2024 APPLE VALLEY, MN Unique Number : 10990769 Diagnosed : 24 Apr 2024 - Jonathan Hester US 55124 Test Package : FLEET Contact: COLE DAMBROTEN Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. coledambroten@avrconcrete.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Т: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: