

## Machine Id **5048** Component **Left Final Drive** Filuid **BOBCAT DRIVE MOTOR (--- QTS)**

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

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The chromium level is abnormal. All other metal levels are typical for a new component breaking in.

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## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate aluminasilicate (coarse dirt) ingress.

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sample DateClient InfoZ3 Feb 202426 May 202330 Dec 2024Machine AgehrsClient InfoI1992114152420Oil AgehrsClient InfoI2000100000Filter AgehrsClient InfoIChangedN/A100000Oil ChangedInsClient InfoInsChangedN/AN/AN/AN/AN/AFilter ChangedInsClient InfoInsN/AABNORMALABNORMALABNORMALABNORMALFilter ChangedInsStTM D5185InsABNORMALABNORMALABNORMALABNORMALPQASTM D5185Ins302122InsInsInsInsInsPQASTM D5185InsASIns							
Sample DateClient Into23 Feb 20224 May 202330 Dec 2024Machine AgehrsClient Info199211415241Oil AgehrsClient Info2000100000Filter AgehrsClient InfoChangedN/AChangedN/ASample StatusClient InfoN/AChangedN/AABNORMALABNORMALPQASTM D5185S500192282.272.2IronpmASTM D5185>10A 3412.23NickelpmASTM D5185>103-11-11SilverpmASTM D5185>103-11-11SilverpmASTM D5185>103-11-11SilverpmASTM D5185>25-14-11-11SilverpmASTM D5185>501-11-11SilverpmASTM D5185>501-11-11TinapmASTM D5185>501-11-11Yellow Metalscalar'VisualNONENONENONEMODEFYellow Metalscalar'VisualNONENONENONEMODEFSiltscalar'VisualNONENONENONENONENONESiltscalar'VisualNONENONENONENONENONESiltscalar'VisualNORENONENONENORENORE	Test	UOM	Method	Limit/Abn	Current	History1	History2
Machine AgehrsClient Info19921141524Oil AgehrsClient Info200010000Filter AgehrsClient Info200010000Oil ChangedClient InfoChangedChangedN/AFilter ChangedClient InfoIvN/AChangedN/ASample StatusClient InfoIvN/AABNORMALABNORMALPQASTM D8185>5001928272IronpmASTM D5185>1031131NickelpmASTM D5185>1031131NickelpmASTM D5185>1031131SilverpmASTM D5185>50113131LeadpmASTM D5185>50113131LeadpmASTM D5185>50113131LeadpmASTM D5185>50113131Yellow Metalscalar"VisualNONENONE1010VanadiumpmASTM D5185>50113131Yellow Metalscalar"VisualNONENONENONE100VanadiumpmASTM D5185>50113131Yellow Metalscalar"VisualNONENONENONENONESiliconpmASTM D5185>75I123310Yellow Metalscalar<	Sample Number		Client Info		JR0195379	JR0159835	JR0152215
Oil Age Filter AgeInsClient InfoZ00010000Filter AgehrsClient Info200010000Oil ChangedClient InfoKAChangedN/AFilter ChangedIntoIntoN/AChangedN/ASample StatusClient InfoN/ASample StatusASTM D5185S1001920ASTM D5185PQASTM D5185S100192082.272.2IronppmASTM D5185S1003<100NickelppmASTM D5185S1003<100TitaniumppmASTM D5185S20G1000AluminumppmASTM D5185S20G1000AluminumppmASTM D5185S20G1000VanadiumppmASTM D5185S20G100VanadiumppmASTM D5185S20G1000VanadiumppmASTM D5185S20G1000VanadiumppmASTM D5185S20G1000VanadiumppmASTM D5185S20G1000VanadiumppmASTM D5185S20G1000VanadiumppmASTM D5185S20G1000VanadiumppmASTM D5185S20G12S300VanadiumppmASTM D5185S20AIT00<	Sample Date		Client Info		23 Feb 2024	26 May 2023	30 Dec 2022
Filter Age Oil ChangedhrsClient InfoC00C000ChangedN/AFilter ChangedClient InfoN/AChangedN/ASample StatusClient InfoN/ANAAbnormALPQASTM D8184302122IronppmASTM D818550019282ChromiumppmASTM D518550019230ChromiumppmASTM D518551031412NickelppmASTM D5185501<1SilverppmASTM D518552413SilverppmASTM D518552-1<1CopperppmASTM D518552-1<1TinppmASTM D5185501<1Nikhe Metalscalar'VisualNONENONEMODEYellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185521253Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185-201253Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185-201253Yellow Metalscalar'VisualNONENONENONESiliconppmASTM D5185-201253SoliconppmASTM D5185 <td< th=""><th>Machine Age</th><th>hrs</th><th>Client Info</th><th></th><th>1992</th><th>1141</th><th>524</th></td<>	Machine Age	hrs	Client Info		1992	1141	524
Oli ChangedClient InfoKangedKhangedN/AFilter ChangedClient InfoN/AKangedN/ASample StatusKarm KangedN/AABNORMALABNORMALPQASTM D8184302122IronppmASTM D5185>5001928272ChromiumppmASTM D5185>10341230NickelppmASTM D5185>10341230NickelppmASTM D5185>501<11SilverppmASTM D5185>52•143131LeadppmASTM D5185>501<12CopperppmASTM D5185>501<11TinppmASTM D5185>501<10VanadumppmASTM D5185>501<11Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>20125331Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>20125331Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185>20125331PotassiumppmASTM D5185>20NONENONENONESiliconppmASTM D5185	Oil Age	hrs	Client Info		2000	1000	0
Filter Changed Sample StatusCilent InoNAChanged NANAPQASTM D8184ABNORMALNORMALABNORMALPQASTM D5185m5001928272IronppmASTM D5185m5001928272ChromiumppmASTM D5185m5001928272ChromiumppmASTM D5185m510341230NickelppmASTM D5185m501<110TitaniumppmASTM D5185m501<110AluminumppmASTM D5185m501<1<1LeadppmASTM D5185m501<1<1CopperppmASTM D5185m501<1<1TinppmASTM D5185m501<1<1VanadiumppmASTM D5185m501<1<1Yellow Metalscalar'VisualNONENONENONENONESiliconppmASTM D5185m>75 <b>1</b> 100VaterVC Metod>20IANONENONENONESiliconppmASTM D5185m>201253SiliconppmASTM D5185m>20IANONENONEDebrisscalar'VisualNONENONENONENONESiliconscalar'VisualNORMNORMNORMNORMApe	Filter Age	hrs	Client Info		2000	1000	0
Sample Status ABNORMAL NORMAL ABNORMAL   PQ ASTM D8184 30 21 22   Iron pm ASTM D5185 >10 192 82 72   Chronium pm ASTM D5185 >10 34 12 3   Nickel pm ASTM D5185 >10 3 <10 0   Titanium pm ASTM D5185 >10 3 <10 0   Silver pm ASTM D5185 >25 6 613 3   Lead ppm ASTM D5185 >25 6 13 3   Lead ppm ASTM D5185 >50 1 <1 1   Visual NORE ASTM D5185 >10 4 10 0   Varadium ppm ASTM D5185 >20 16 NORE NORE   Yellow Metal scalar Yisual NORE NORE NORE NORE	Oil Changed		Client Info		Changed	Changed	N/A
PQ   ASTM D818/ Image: Solution of the sector of the se	Filter Changed		Client Info		N/A	Changed	N/A
IronppmASTM D5185m>50019282272ChromiumppmASTM D5185m>10A341223NickelppmASTM D5185m>103<10TitaniumppmASTM D5185m<51<1<1SilverppmASTM D5185m>25<16333LeadppmASTM D5185m>25<1<1<1<1CopperppmASTM D5185m>501<1<1<1<1TinppmASTM D5185m>501<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<1<	Sample Status				ABNORMAL	NORMAL	ABNORMAL
ChromiumppmASTM D5185m>10A 34123NickelppmASTM D5185m>103<10TitaniumppmASTM D5185m51<1SilverppmASTM D5185m>2•46133LeadppmASTM D5185m>2•461331LeadppmASTM D5185m>2<1<122CopperppmASTM D5185m>501<1<1<11TinppmASTM D5185m>501<1<1<11<11<11	PQ		ASTM D8184		30	21	22
NickelppmASTM D5185m ASTM D5185m>103<1	Iron	ppm	ASTM D5185m	>500	192	82	72
TitaniumppmASTM D5185m51<1	Chromium	ppm	ASTM D5185m	>10	<b>4</b> 34	12	3
SilverppmASTM D5185m000AluminumppmASTM D5185m>2546133LeadppmASTM D5185m>25<1<12CopperppmASTM D5185m>5001<1<1<1TinppmASTM D5185m>10<1000VanadiumppmASTM D5185m>10<1000White Metalscalar*VisualNONENONENONEMODEFYellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>75 <b>A</b> 1765317PotassiumppmASTM D5185m>201253WaterWC Method>0.2NEGNONENONENONESilitscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORNORMLNORMLNORMLGoronppmASTM D5185m<6000BoronppmASTM D5185m<73323MagnesiumppmASTM D5185m<76000MolybdenumppmASTM D5185m<73333AgnadiumppmASTM D5185m<76000Magnesium	Nickel	ppm	ASTM D5185m	>10	3	<1	0
AluminumppmASTM D5185m>25• 46133LeadppmASTM D5185m>25<1<12CopperppmASTM D5185m>5001<1<1<1TinppmASTM D5185m>10<1000VanadiumppmASTM D5185m>10<1000VanadiumppmASTM D5185m>10<1000Vinite Metalscalar*VisualNONENONENONEMODEYellow Metalscalar*VisualNONENONENONENONE17PotassiumppmASTM D5185m>75 <b>A</b> 17653317PotassiumppmASTM D5185m>201253WaterVisualNONENONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORENORENORENOREAgroancescalar*VisualNORENORENORENORESodiumppmASTM D5185m-0000BariumppmASTM D5185mIA1011ManganeseppmASTM D5185mIA323MagnesiumppmASTM D5185mIA1001ManganeseppmASTM D5185mIA10011Manganes	Titanium	ppm	ASTM D5185m		5	1	<1
LeadppmASTM D5185m>25<1	Silver	ppm	ASTM D5185m		0	0	0
CopperppmASTM D5185m>501<1	Aluminum	ppm	ASTM D5185m	>25	<b>4</b> 6	13	3
TinppmASTM D5185m>10<1	Lead	ppm	ASTM D5185m	>25	<1	<1	2
VanadiumppmASTM D5185m<	Copper	ppm	ASTM D5185m	>50	1	<1	<1
White Metalscalar*VisualNONENONENONENONENONEMODEFYellow Metalscalar*VisualNONENONENONENONENONENONESiliconppmASTM D5185m>75 <b>176</b> 533177PotassiumppmASTM D5185m>2012553WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONENONESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLGoronppmASTM D5185m0000BariumppmASTM D5185m0000MolybdenumppmASTM D5185m32233MaganeseppmASTM D5185m32233MagnesiumppmASTM D5185m110011PhosphorusppmASTM D5185m1851421111PhosphorusppmASTM D5185m11521121492SulfurppmASTM D5185m378940987313	Tin	ppm	ASTM D5185m	>10	<1	0	0
Yellow Metalscalar*VisualNONENONENONENONESiliconppmASTM D5185m>75▲ 1765317PotassiumppmASTM D5185m>201253WaterWC Method>0.2NEGNEGNEGSilitscalar*VisualNONENONENONENONEDebrisscalar*VisualNONENONENONEMODESand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLCodorscalar*VisualNORMLNORMLNORMLNORMLBariumppmASTM D5185mC600BoronppmASTM D5185mG000MolybdenumppmASTM D5185m323MagnesiumppmASTM D5185m1001PhosphorusppmASTM D5185m11001PhosphorusppmASTM D5185m1851421111PhosphorusppmASTM D5185m11521121492SulfurppmASTM D5185m11521121492	Vanadium	ppm	ASTM D5185m		<1	0	0
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WaterWC Method>0.2NEGNEGNEGSiltscalar*VisualNONENONENONENONENONEDebrisscalar*VisualNONENONENONENONEMODEFSand/Dirtscalar*VisualNONENONENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185mG000BariumppmASTM D5185mIntegIntegIntegIntegMagnesiumppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegIntegIntegIntegPhosphorusppmASTM D5185mIntegInteg	Silicon	ppm	ASTM D5185m	>75	<b>1</b> 76	53	17
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Debrisscalar*VisualNONENONENONENONENONENONESand/Dirtscalar*VisualNORNORNORENONENONENONEAppearancescalar*VisualNORMNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEGSodiumppmASTM D5185m<60000BariumppmASTM D5185m<000000MolybdenumppmASTM D5185m<323000	Water		WC Method	>0.2	NEG	NEG	NEG
Sand/Dirtscalar*VisualNONENONENONENONEAppearancescalar*VisualNORMLNORMLNORMLNORMLNORMLOdorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m6000BoronppmASTM D5185m04.14.4BariumppmASTM D5185m000MolybdenumppmASTM D5185m3.32.23.3MagnesiumppmASTM D5185m11001CalciumppmASTM D5185m768813321PhosphorusppmASTM D5185m11521121492SulfurppmASTM D5185m3.378940987313	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearancescalar*VisualNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLNORMLCdorscalar*Visual>0.2NEGNEGNEGNEGNEGEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEGSodiumppmASTM D5185m60001BoronppmASTM D5185mI0000BariumppmASTM D5185mI0000MolybdenumppmASTM D5185mI4111MagnesiumppmASTM D5185mI3233MagnesiumppmASTM D5185mI1001111PhosphorusppmASTM D5185mI1851421111111PhosphorusppmASTM D5185mII152112149211	Debris	scalar	*Visual	NONE	NONE	NONE	A MODER
Odorscalar*VisualNORMLNORMLNORMLNORMLNORMLEmulsified Waterscalar*Visual>0.2NEGNEGNEGNEGSodiumppmASTM D5185m6000BoronppmASTM D5185m00<14BariumppmASTM D5185m0000MolybdenumppmASTM D5185m441<11ManganeseppmASTM D5185m3323MagnesiumppmASTM D5185m185142111PhosphorusppmASTM D5185m768813321ZincppmASTM D5185m11521121492SulfurppmASTM D5185m378940987313	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Emulsified Waterscalar*Visual>0.2NEGNEGNEGSodiumppmASTM D5185m600BoronppmASTM D5185m0<14BariumppmASTM D5185m000MolybdenumppmASTM D5185m441<1ManganeseppmASTM D5185m3323MagnesiumppmASTM D5185m185142111PhosphorusppmASTM D5185m768813321ZincppmASTM D5185m11521121492SulfurppmASTM D5185m378940987313	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Sodium     ppm     ASTM D5185m     6     0     0       Boron     ppm     ASTM D5185m     0     <1     4       Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     0     0     0       Manganese     ppm     ASTM D5185m     3     2     3       Magnesium     ppm     ASTM D5185m     100     0     1       Calcium     ppm     ASTM D5185m     185     142     111       Phosphorus     ppm     ASTM D5185m     768     813     321       Zinc     ppm     ASTM D5185m     1152     1121     492       Sulfur     ppm     ASTM D5185m     3789     4098     7313	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Boron     ppm     ASTM D5185m     0     <1	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Barium     ppm     ASTM D5185m     0     0     0       Molybdenum     ppm     ASTM D5185m     4     1     <1       Manganese     ppm     ASTM D5185m     3     2     3       Magnesium     ppm     ASTM D5185m     10     0     1       Calcium     ppm     ASTM D5185m     185     142     111       Phosphorus     ppm     ASTM D5185m     768     813     321       Zinc     ppm     ASTM D5185m     1152     1121     492       Sulfur     ppm     ASTM D5185m     3789     4098     7313	Sodium	ppm	ASTM D5185m		6	0	0
Molybdenum     ppm     ASTM D5185m     4     1     <1	Boron	ppm	ASTM D5185m		0	<1	4
Manganese     ppm     ASTM D5185m     3     2     3       Magnesium     ppm     ASTM D5185m     10     0     1       Calcium     ppm     ASTM D5185m     185     142     111       Phosphorus     ppm     ASTM D5185m     768     813     321       Zinc     ppm     ASTM D5185m     1152     1121     492       Sulfur     ppm     ASTM D5185m     3789     4098     7313	Barium	ppm	ASTM D5185m		0	0	0
Magnesium     ppm     ASTM D5185m     10     0     1       Calcium     ppm     ASTM D5185m     185     142     111       Phosphorus     ppm     ASTM D5185m     768     813     321       Zinc     ppm     ASTM D5185m     1152     1121     492       Sulfur     ppm     ASTM D5185m     3789     4098     7313	Molybdenum	ppm	ASTM D5185m		4	1	<1
Calcium     ppm     ASTM D5185m     185     142     111       Phosphorus     ppm     ASTM D5185m     768     813     321       Zinc     ppm     ASTM D5185m     1152     1121     492       Sulfur     ppm     ASTM D5185m     3789     4098     7313	Manganese	ppm	ASTM D5185m		3	2	3
Phosphorus     ppm     ASTM D5185m     768     813     321       Zinc     ppm     ASTM D5185m     1152     1121     492       Sulfur     ppm     ASTM D5185m     3789     4098     7313	Magnesium	ppm	ASTM D5185m		10	0	1
Zinc     ppm     ASTM D5185m     1152     1121     492       Sulfur     ppm     ASTM D5185m     3789     4098     7313	Calcium	ppm	ASTM D5185m		185	142	111
Sulfur     ppm     ASTM D5185m     3789     4098     7313	Phosphorus	ppm	ASTM D5185m		768	813	321
	Zinc	ppm	ASTM D5185m		1152	1121	492
Visc @ 40°C cSt ASTM D445 46.7 46.4 44.8	Sulfur	ppm	ASTM D5185m		3789	4098	7313
	Visc @ 40°C	cSt	ASTM D445		46.7	46.4	44.8

WEAR

CONTAMINATION

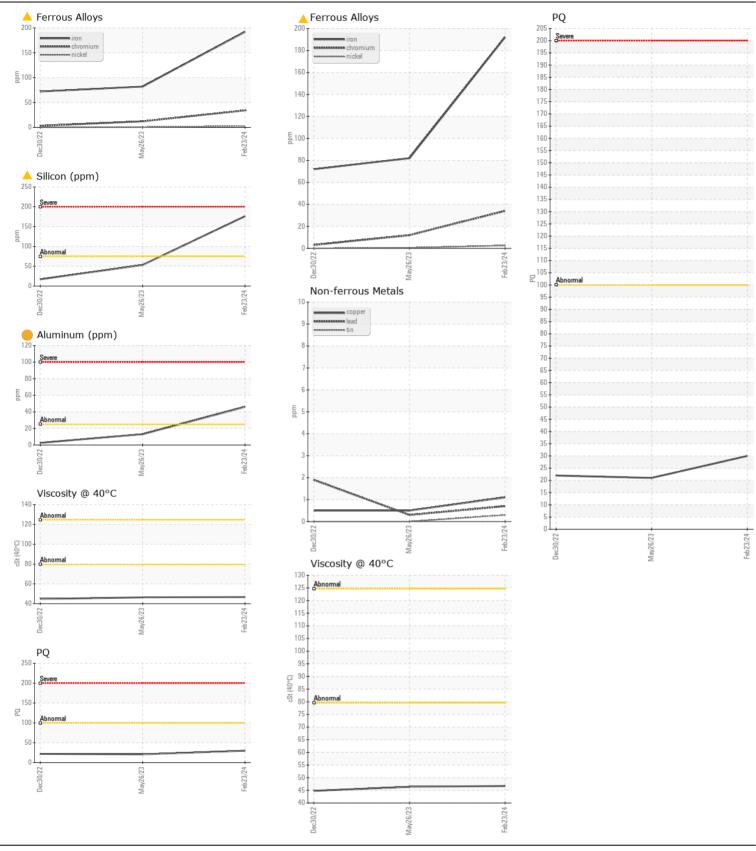
**FLUID CONDITION** 

**ABNORMAL** 

**ABNORMAL** 

NORMAL

Submitted By: BRANDON STEVENS



: WearCheck USA - 501 Madison Ave., Cary, NC 27513 PATRIOT DEVELOPMENT CORP Laboratory 回論 Sample No. : JR0195379 Received : 20 Mar 2024 22721 LADBROOK DRIVE STE 120 Lab Number : 06123938 : 21 Mar 2024 STERLING, VA Tested : 22 Mar 2024 - Don Baldridge Unique Number : 10938089 US 20166 Diagnosed Test Package : CONST (Additional Tests: PQ) Contact: ROBERT MOSS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. robert.moss@patriotdev.net \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: BRANDON STEVENS