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**Condition Monitoring Report** 

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Unit ID: 53939 ENGINE

Client ID: 24975 CANTON TWP FIRE DEPT

Unit Type: DIESEL ENGINE Year 2006

Unit Make: ROSENBAUER Lube Type: PURUS

**ATTENTION CODE:** 

Slight

Unit Model: FIRE TRUCK Grade: 15W40

Component Make: CUMMINS Capacity: 28qts

Component Model: ISL Oil Changed: YES

\*WEAR LEVELS APPEAR NORMAL. ATTENTION CODES \*CHANGES IN ADDITIVE METALS MAY BE DUE TO SWITCH TO NEW OIL. IT MAY TAKE A FEW AAA Acceptable NNN Negative OIL CHANGES TO WORK THROUGH THE SYSTEM !!! Critical DDD Critical - Below \*RESAMPLE AT NORMAL INTERVAL CHANGE FROM ROTELLA TO PURUS OIL NOTED EEE **Excessive** \*\*\* Severe MMM Moderate CCC Severe - Below Caution **BBB Caution - Below Slightly Above Normal** LLL **Slightly Below Normal** TTT Trend

	ASTM D6595M (PPM) WEAR METALS (click here)  C													MULTIS	SOURC	E					ADDI	TIVES	
I R O N	0 I R O M I D	LEAD	C O P P E R	T		N - C K E L	% -	A D M I U	V A N A D I U M	8 - L - C O Z	вокох	S O D - U M	P O T A S S I U M	MAGNESIUM	T I T A N I U M	M O L Y B D E N U M	M A N G A N E S E	L - T H - U M	A N T I M O N Y	CALCIUM	0 C 2 O L 1 0 0 C I 0	Z I N C	B A R I U M
Lab #: 1	Lab #: 1391479 Dt Tkn: 3/20/2024 Dt Recd: 4/3/2024 HrO: 25 HrU: 6778 MiO: 550 MiU: 99109 Make Up Oil: 0 qts																						
4	0	0	1	2	1	0	1	0	0	2	12 TTT	7	2	717 TTT	0	58	0	0	0	1064	1149	1359	0
Lab #: 1	267589	Dt Tkn:	9/27/202	2 Dt Re	cd: 12/27	7/2022	HrO: 21	4 HrU: 3	452 MiC	D: 6686	MiU: 978	72 Mak	e Up Oil:	0 qts									
8	1	0	2	2	1	0	2	0	0	3	67	11	5	346	0	70	0	0	4	1657	1301	1365	0
Lab #: 1	039641	Dt Tkn:	7/1/2020	Dt Rec	d: 7/30/2	020 Hı	O: 167	HrU: 625	9 MiO:	1282 Mi	U: 91621	Make l	Jp Oil: 0	qts				_					
28	1	1	3	0	7	0	0	0	0	4	95	2	15	320	1	52	1	0	0	1663	1276	1271	0

### Client ID: 24975 CANTON TWP FIRE DEPT

		AN / BN (mg KOH/g)	VISCO	SITY ASTM D	445M			CONTAMINANT	S		FTIR - a	abs units
	Acid Number	Base Number	VISC 40c cSt	VISC 100c cSt	VISC INDEX	%WATER	KFISCH (PPM)	FUEL* (FTIR/ASTM D7094)	GLYC (ASTM D2982)	SOOT (ASTM D7844)	OXI (ASTM D7414)	NIT (ASTM D7624)
	a = ASTM D974 b=ASTM D664	a = Lab Method WI~038 b = ASTM D4739 c = ASTM D2896*				a = Crackl	e Test k = AST	M D6304a v = ASTM r=Refractometer*	1 E203* o = ASTN	Л D6304b		
1391479				13.96		< 0.1 (a)		A AAA	N NNN	0.18	14.01	0
1267589				13.79		< 0.1 (a)		A AAA	N NNN	0.33	14.76	0
1039641				13.42		< 0.1 (a)		A AAA	N NNN	0.35	15.55	0

Unit ID: 53939 ENGINE

		PARTICLI	E COUNT	ISO 4406	- Particle	es per mL	
	>4(c)	>6(c)	>14(c)	>21(c)	>38(c)	>70(c)	ISO
1391479	0	0	0	0	0	0	//
1267589	0	0	0	0	0	0	//
1039641	0	0	0	0	0	0	//

Reviewed and Approved by: JC

Jared Carbaugh, Analyst

Report Date: 04-05-2024

Barcode:

Date Tested: 04-03-2024 - 04-05-2024

JEFF YERIAN CANTON TWP FIRE DEPT 210 38TH ST SE CANTON OH 44707



Unit ID: 53939 ENGINE

Client ID: 24975 CANTON TWP FIRE DEPT

Unit Type: DIESEL ENGINE Year 2006

Unit Make: ROSENBAUER Lube Type: SHELL ROTELLA T5

Unit Model: FIRE TRUCK Grade: 15W40

Component Make: CUMMINS Capacity: 28qts

- Land -

## Normal

**ATTENTION CODE:** 

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Component Model: ISL Oil Changed: YES

*WEAR AND CONTAMINANT LEVELS APPE	AR NORMAL.	ATTENTIO	N CODES		
*RESAMPLE AT NORMAL INTERVAL		AAA	Acceptable	NNN	Negative
R		!!!	Critical	DDD	Critical - Below
E		EEE	Excessive		_
M		***	Severe	MMM	Moderate
A   R		ccc	Severe - Below		
<b>k</b>		===	Caution	BBB	Caution - Below
S			Slightly Above Normal		
		LLL	Slightly Below Normal		
		TTT	Trend		

	ASTM D6595M (PPM) WEAR METALS (click here)  C												MULTIS	SOURC	E					ADDI	TIVES		
I R O N		l	C O P P E R			I C K E L	S – L V E R	A D M I U M	V A N A D I U M	S	BORON	% O D - D M	POTASSIUM	MAGNESIUM	T	M O L Y B D E N U M	M A N G A N E S E	L	A N T I M O N Y	C A L C I U M	0 C 2 O 1 4 0 0 L 4	Z I N C	B A R I U M
Lab #: 1	267589	Dt Tkn:	9/27/202	22 Dt Re	cd: 12/2	7/2022	HrO: 21	4 HrU: 3	452 MiC	D: 6686	MiU: 978	372 Mak	e Up Oil:	0 qts									
8	1	0	2	2	1	0	2	0	0	3	67	11	5	346	0	70	0	0	4	1657	1301	1365	0
Lab #: 1	039641	Dt Tkn:	7/1/2020	Dt Rec	d: 7/30/2	2020 Hi	rO: 167	HrU: 625	9 MiO:	1282 Mi	U: 91621	Make l	Jp Oil: 0	qts									
28	1	1	3	0	7	0	0	0	0	4	95	2	15	320	1	52	1	0	0	1663	1276	1271	0

### Client ID: 24975 CANTON TWP FIRE DEPT

		AN / BN (mg KOH/g)	VISCO	SITY ASTM D	445M			CONTAMINANT	S		FTIR - a	abs units
	Acid Number	Base Number	VISC 40c cSt	VISC 100c cSt	VISC INDEX	%WATER	KFISCH (PPM)	FUEL* (FTIR/ASTM D7094)	GLYC (ASTM D2982)	SOOT (ASTM D7844)	OXI (ASTM D7414)	NIT (ASTM D7624)
	a = ASTM D974 b=ASTM D664	a = Lab Method WI~038 b = ASTM D4739 c = ASTM D2896*				a = Crackl	e Test k = AST	M D6304a v = ASTM r=Refractometer*	1 E203* o = ASTN	/I D6304b		
1267589				13.79		< 0.1 (a)		A AAA	N NNN	0.33	14.76	0
1039641				13.42		< 0.1 (a) A N 0.35 AAA NNN					15.55	0

Unit ID: 53939 ENGINE

		PARTICL	E COUNT	ISO 4406	- Particle	es per mL	
	>4(c)	>6(c)	>14(c)	>21(c)	>38(c)	>70(c)	ISO
1267589	0	0	0	0	0	0	//
1039641	0	0	0	0	0	0	//

Reviewed and Approved by: LE

Lisa Espenschied, Analyst

Report Date: 12-29-2022

Barcode:

Date Tested: 12-27-2022 - 12-29-2022

JEFF YERIAN CANTON TWP FIRE DEPT 210 38TH ST SE CANTON OH 44707



Unit ID: 053939 TRANS

Client ID: 24975 CANTON TWP FIRE DEPT

Unit Type: TRANSMISSION

Unit Make: ROSENBAUER Lube Type: FLEETRITE SYN

Unit Model: FIRE TRUCK Grade: ATF

Year

**ATTENTION CODE:** 

**Normal** 

Component Make: ALLISON Capacity:

Component Model: 300EVS/6510611106 Oil Changed:

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	THE MET AND CONTINUE TO THE PER PER PER PER PER PER PER PER PER PE	ATTENTION	N CODES		
	INDICATED BY TESTS PERFORMED. CONTINUE NORMAL OEM MAINTENANCE & SAMPLE	AAA	Acceptable	NNN	Negative
R	INTERVALS.	!!!	Critical	DDD	Critical - Below
E		EEE	Excessive		_
М		***	Severe	MMM	Moderate
A R		ccc	Severe - Below		
K		===	Caution	BBB	Caution - Below
S			Slightly Above Normal		
		LLL	Slightly Below Normal		
		TTT	Trend		

	ASTM D6595M (PPM) WEAR METALS (click here)  C													MULTIS	SOURC	E					ADDI	TIVES	
I R O N	0 H R O M - U M	L E A D	C O P P E R	T I N	A L U M - N U M	N	S I L V E R	A D	V A N A D I U M	S - L - C O N	B O R O N	S O D - U M	P O T A S S I U M	M A G N E S - U M	T	M O L Y B D E N U M	MANGANESE	L T H U M	A Z H - M O Z Y	O 4 L O L S	P I O 0 P I O K I 0	Z – N C	B A R I U M
Lab #:	1182626	Dt Tkn:	1/12/202	2 Dt Re	cd: 2/7/2	.022 Hi	rO: 636	HrU: 655	3 MiO:	8972 Mi	U: 95688	3 Make l	Jp Oil: 0	qts				-					
20	0	2	34	2	5	0	0	0	0	3	99	5	1	1	0	1	0	0	0	34	220	15	0

### Client ID: 24975 CANTON TWP FIRE DEPT

		AN / BN (mg KOH/g)	VISCO	SITY ASTM D	445M			CONTAMINANTS	6		FTIR - a	abs units
	Acid Number	Base Number	VISC 40c cSt	VISC 100c cSt	VISC INDEX	%WATER	KFISCH (PPM)	FUEL* (FTIR/ASTM D7094)	GLYC (ASTM D2982)	SOOT (ASTM D7844)	OXI (ASTM D7414)	NIT (ASTM D7624)
	a = ASTM D974 b=ASTM D664				a = Cracklo	e Test k = AST	M D6304a v = ASTM r=Refractometer*	l E203* o = ASTM	1 D6304b			
1182626			36.77			< 0.1 (a)			N NNN	0.13	63.38	0

Unit ID: 053939 TRANS

		PARTICLI	E COUNT	ISO 4406	- Particle	es per mL	
	>4(c)	>6(c)	>14(c)	>21(c)	>38(c)	>70(c)	ISO
1182626	0	0	0	0	0	0	//

Reviewed and Approved by: JC

Jared Carbaugh, Analyst

Report Date: 02-09-2022

Barcode:

Date Tested: 02-07-2022 - 02-09-2022