



Unit ID: 1019 ENGINE
 Client ID: S4874EX CITY OF CONROE FLEET
 Unit Type: DIESEL ENGINE Year
 Unit Make: PIERCE Lube Type: SCHAEFFER
 Unit Model: QUANTUM Grade: 15W-40
 Component Make: CUMMINS ISM500 Capacity:
 Component Model: 201D FIRE TRUCK 2010 Oil Changed:

ATTENTION CODE:
Normal

Condition Monitoring Report

REMARKS	*WEAR AND CONTAMINATION LEVELS APPEAR NORMAL. WHEN OEM EXTENDED DRAIN PARAMETERS ALSO PERMIT, EXTEND OIL DRAIN 100 HOURS AND RESAMPLE. CHANGE FROM KENDALL TO SCHAEFFER OIL NOTED	ATTENTION CODES
		AAA Acceptable NNN Negative
		!!! Critical DDD Critical - Below
		EEE Excessive
		*** Severe MMM Moderate
		CCC Severe - Below
		=== Caution BBB Caution - Below
		--- Slightly Above Normal LLL Slightly Below Normal TTT Trend

ASTM D6595 (PPM) WEAR METALS										MULTISOURCE								ADDITIVES					
IRON	CHROMIUM	LEAD	COPPER	TIN	ALUMINUM	NICKEL	SILVER	CADMIUM	VANADIUM	SILICON	BORON	SODIUM	POTASSIUM	MAGNESIUM	TITANIUM	MOLYBDENUM	MANGANESE	LITHIUM	ANTIMONY	CALCIUM	PHOSPHORUS	ZINC	BARIUM
Lab #: 1098764 Dt Tkn: 2/22/2021 Dt Recd: 3/17/2021 HrO: 491 HrU: 9854 MiO: MiU: 125302 Make Up Oil: 0 qts																							
25	1	8	12	0	3	0	0	0	0	6	35	7	1	13	0	59	0	0	6	2063	1385	875	0
Lab #: 793612 Dt Tkn: 2/16/2018 Dt Recd: 3/1/2018 HrO: 75 HrU: 7362 MiO: MiU: Make Up Oil: 0 qts																							
10	0	1	2	0	1	1	0	0	0	2	64	3	1	27	1	84	1	0	0	2228	1256	1327	0
Lab #: 789786 Dt Tkn: 1/26/2018 Dt Recd: 2/16/2018 HrO: 369 HrU: 7287 MiO: MiU: Make Up Oil: 0 qts																							
31	1	6	7	0	0	1	0	0	0	3	39	5	1	72	0	86	1	0	28	1879	1286	1274	0
Lab #: 778956 Dt Tkn: 12/19/2017 Dt Recd: 1/8/2018 HrO: HrU: MiO: MiU: 91397 Make Up Oil: 0 qts																							
21	1	4	5	0	1	1	0	0	0	4	46	5	1	62	0	67	0	0	1	1553	1212	1097	0
Lab #: 754423 Dt Tkn: 9/7/2017 Dt Recd: 10/3/2017 HrO: 485 HrU: 6918 MiO: 6087 MiU: 88730 Make Up Oil: 0 qts																							
45	1	10	11	0	1	0	0	0	0	7	13	7	1	228	0	48		0	0	1221	963	901	0

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AN / BN (mg KOH/g)		VISCOSITY ASTM D445M			CONTAMINANTS					FTIR - 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 = Crackle Test k = ASTM D6304a v = ASTM D6304b* o = ASTM D6304c r=Refractometer*						
1098764			14.74		< 0.1 (a)			N NNN	1.97	16.11	0
793612			12.21		< 0.1 (a)			N NNN	0.58	23.63	0
789786			14.3		< 0.1 (a)			N NNN	1.97	16.38	0
778956			14.1		< 0.1 (a)			N NNN	1.57	15.19	0
754423		0	8.88 ccc		< 0.1 (a)			N NNN	3.11 ===	18.56	0

PARTICLE COUNT ISO 4406 - Particles per mL							
	>4(c)	>6(c)	>14(c)	>21(c)	>38(c)	>70(c)	ISO
1098764	0	0	0	0	0	0	//
793612	0	0	0	0	0	0	//
789786	0	0	0	0	0	0	//
778956	0	0	0	0	0	0	//
754423	0	0	0	0	0	0	//

Reviewed and Approved by: JC

Jared Carbaugh, Analyst

Report Date: 03-19-2021

Barcode:

Date Tested: 03-17-2021 - 03-19-2021

ERIK METZGER
CITY OF CONROE FLEET
PO BOX 3066
CONROE TX
77304