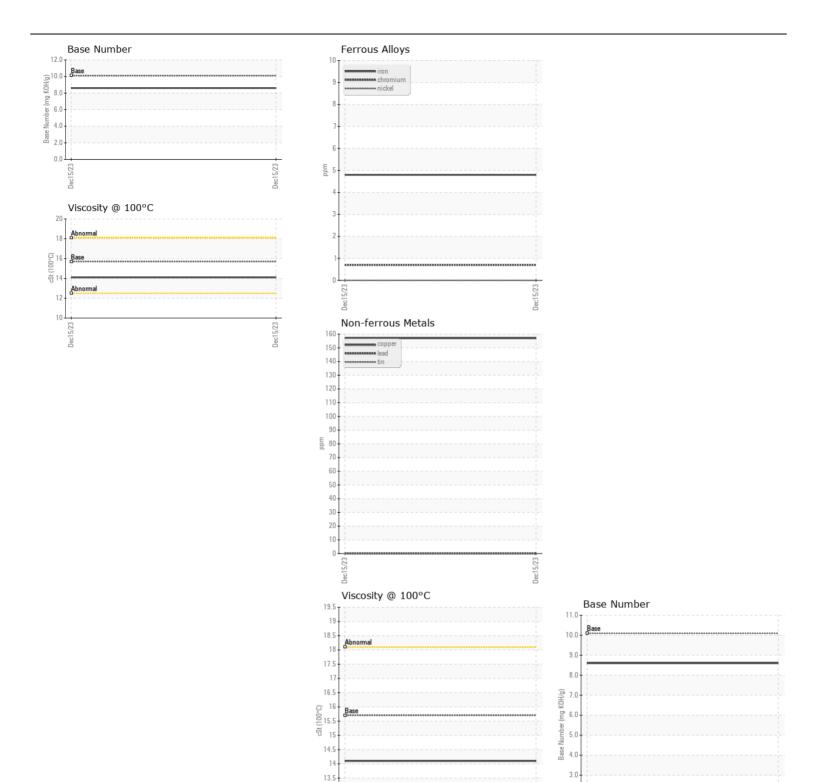
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

FT STOCKTON FIRE DEPT

Component Diesel Engine

Test	SHELL ROTELLA T 15W40 (GAL)							
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Machine Age No. Component make and model with your next sample. Machine Age No. Collent Info So So So So So So So	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Solution State S		Sample Number		Client Info		WC0872214	-	
Machine Age https: Client Info 90		Sample Date		Client Info		15 Dec 2023		
Filter Age Oil Changed Client Info Changed Cha		Machine Age	hrs	Client Info		90		
Oil Changed Filter		Oil Age	hrs	Client Info		90		
Filter Changed Client Info Changed Change Changed Client Info Changed Change Changed Changed		Filter Age	hrs	Client Info		90		
Nome		Oil Changed		Client Info		Changed		
Iron		Filter Changed		Client Info		Changed		
Metal levels are typical for a components first oil change. Nickel		Sample Status				NORMAL		
Metal levels are typical for a components first oil change. Nickel	WEAR	Iron	ppm	ASTM D5185m	>100	5		
Mickel ppm ASTM D5185m >4 0		Chromium		ASTM D5185m	>20			
Titanium ppm ASTM D5185m 3 0	Metal levels are typical for a components first oil change.					0		
Silver ppm ASTM D5185m >20		Titanium		ASTM D5185m		0		
Aluminum ppm ASTM D5185m >20 1					>3			
Lead ppm ASTM DS185m 340 0 0 0 0 0 0 0 0 0		Aluminum		ASTM D5185m	>20	1		
Copper		Lead				0		
The continue Part		Copper	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m	>330	157		
Vanadium Ppm ASTM D5185m NONE NONE		Tin	ppm	ASTM D5185m	>15	0		
Silicon		Vanadium	ppm	ASTM D5185m		0		
Silicon ppm ASTM D5185m >25 3		White Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM 05185m >20 5		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM 05185m >20 5	CONTAMINATION	Silicon	mag	ASTM D5185m	>25	3		
Fuel WC Method So. NEG So. NEG So. NEG So. So. NEG So. NEG So. NEG So. So. NEG So. Nitration Abs/mm 'ASTM D7844 So. Sulfation Abs/mm 'ASTM D7845 So. Sulfation Abs/mm 'ASTM D7845 So.	33117AIIII17ATTSIV		• • • • • • • • • • • • • • • • • • • •					
Water WC Method So.2 NEG So.2 NEG So.2 NEG So.3 Nitration Abs/tm NaSTM D7844 So.3 O.1 So.3 Nitration Abs/tm NaSTM D7844 So.3 O.1 So.3 None	There is no indication of any contamination in the oil.		le le					
Glycol		Water		WC Method	>0.2			
Soot %						NEG		
Sulfation Abs/.1mm *ASTM D7415 >30 20.1 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML			%	*ASTM D7844	>3	0.1		
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Sand/Dirt scalar *Visual NORML N		Nitration	Abs/cm	*ASTM D7624	>20	5.4		
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE		Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1		
Sand/Dirt Scalar *Visual NONE NORML Appearance Scalar *Visual NORML NORML		Silt	scalar	*Visual	NONE	NONE		
Appearance		Debris	scalar	*Visual	NONE	NONE		
Codor Scalar *Visual NORML N		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 0		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 316 355 Barium ppm ASTM D5185m 0.0 8 Molybdenum ppm ASTM D5185m 1.2 47 Manganese ppm ASTM D5185m 1.2 47 Magnesium ppm ASTM D5185m 24 198 Calcium ppm ASTM D5185m 2292 1557 Phosphorus ppm ASTM D5185m 1064 875 Sulfur ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Calcium ppm ASTM D5185m 4996 3253 Sulfur ppm ASTM D5185m 4996 3253 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 316 355 Barium ppm ASTM D5185m 0.0 8 Molybdenum ppm ASTM D5185m 1.2 47 Manganese ppm ASTM D5185m 1.2 47 Magnesium ppm ASTM D5185m 24 198 Calcium ppm ASTM D5185m 2292 1557 Phosphorus ppm ASTM D5185m 1064 875 Sulfur ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Calcium ppm ASTM D5185m 4996 3253 Sulfur ppm ASTM D5185m 4996 3253 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6	FLUID CONDITION	Sodium	ppm	ASTM D5185m		0		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Barium ppm ASTM D5185m 0.0 8 Molybdenum ppm ASTM D5185m 1.2 47 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 24 198 Calcium ppm ASTM D5185m 2292 1557 Phosphorus ppm ASTM D5185m 1064 875 Zinc ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6					316			
Molybdenum ppm ASTM D5185m 1.2 47 Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 24 198 Calcium ppm ASTM D5185m 2292 1557 Phosphorus ppm ASTM D5185m 1064 875 Zinc ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6		Barium						
Manganese ppm ASTM D5185m 0 Magnesium ppm ASTM D5185m 24 198 Calcium ppm ASTM D5185m 2292 1557 Phosphorus ppm ASTM D5185m 1064 875 Zinc ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6				ASTM D5185m	1.2	47		
Calcium ppm ASTM D5185m 2292 1557 Phosphorus ppm ASTM D5185m 1064 875 Zinc ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6		-		ASTM D5185m		0		
Calcium ppm ASTM D5185m 2292 1557 Phosphorus ppm ASTM D5185m 1064 875 Zinc ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6		Magnesium	ppm	ASTM D5185m	24	198		
Zinc ppm ASTM D5185m 1160 1112 Sulfur ppm ASTM D5185m 4996 3253 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6		Calcium	ppm	ASTM D5185m	2292	1557		
Sulfur ppm ASTM D5185m 4996 3253 Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6		Phosphorus	ppm	ASTM D5185m	1064	875		
Oxidation Abs/.1mm *ASTM D7414 >25 15.3 Base Number (BN) mg KOH/g ASTM D2896 10.1 8.6		Zinc	ppm	ASTM D5185m	1160	1112		
Base Number (BN) mg KOH/g ASTM D2896 1 0 . 1 8.6		Sulfur	ppm	ASTM D5185m	4996	3253		
		Oxidation	Abs/.1mm	*ASTM D7414	>25	15.3		
Visc @ 100°C cSt ASTM D445 15.7 14.1		Base Number (BN)	mg KOH/g	ASTM D2896	10.1	8.6		
		Visc @ 100°C	cSt	ASTM D445	15.7	14.1		







Certificate L2367

Laboratory Sample No.

: WC0872214 Lab Number : 06088512 Unique Number: 10875957 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Feb 2024 **Tested**

: 15 Feb 2024 : 15 Feb 2024 - Wes Davis Diagnosed

Dec15/23

STANDBY POWER SUPPORT SYSTEMS

6100 COLORADO AVE ODESSA, TX US 79760

Contact: SANTANA SARABIA standbypower7114@yahoo.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

13 12.5 12 11.5

T: (432)362-1051 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (432)362-1052