

WEAR CONTAMINATION **FLUID CONDITION**

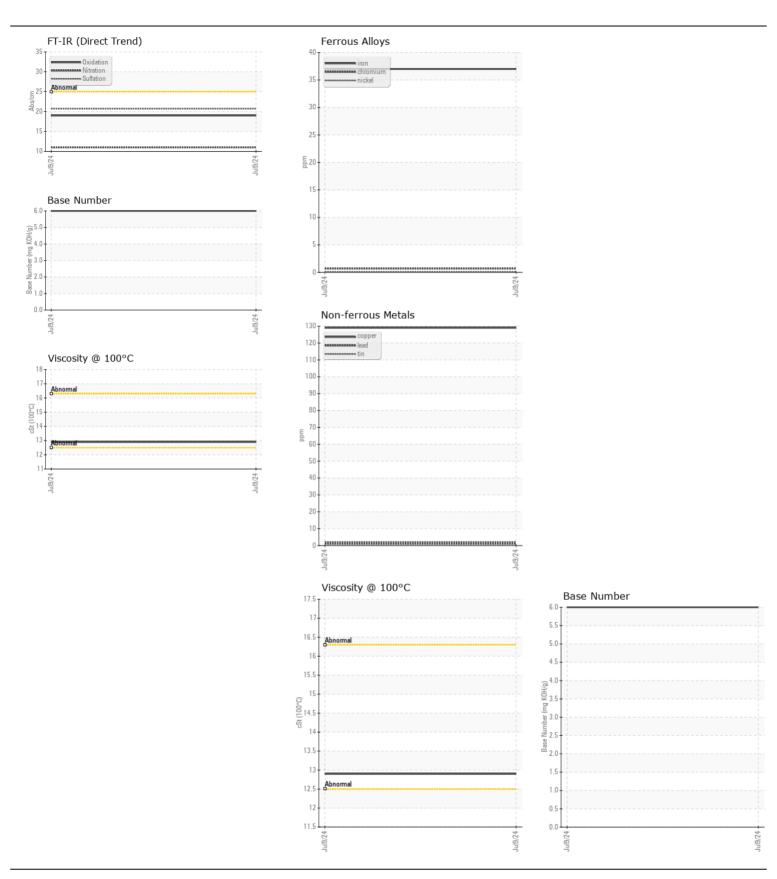
NORMAL NORMAL NORMAL

Mattress Liquidators

1491142
Component
Diesel Engine

SHFLL 15W40 (16 QTS)

Test	SHELL 15W40 (16 QTS)							
Resample at the next service interval to monitor.	BECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	TESSIMIERS/TISI							
Machine Age mils Client Info 0	Resample at the next service interval to monitor.							
Col Age			mls					
Filter Age		•						
Cil Changed Cilent Info Not Changed Cilent Info								
Filter Changed Client Info Not Changed NoRMAL N		_	0					
No. No.		_						
Iron		_				-		
Chromium ppm ASTM Distins -20 -1 Nickel ppm ASTM Distins -4 -1 Titanium ppm ASTM Distins -4 -1 Titanium ppm ASTM Distins -4 -1 Aluminum ppm ASTM Distins -4 -1 Aluminum ppm ASTM Distins -4 -1 Aluminum ppm ASTM Distins -20 7 Lead ppm ASTM Distins -30 0 129 Tin ppm ASTM Distins -30 129 Tin ppm ASTM Distins -20 3 Tin ppm ASTM Distins -20 20 7 Tin ppm		·						
All component wear rates are normal. Nickel ppm ASTM D6185n >4 <1 Titanium ppm ASTM D6185n >3 0 Aluminum ppm ASTM D6185n >20 7 Lead ppm ASTM D6185n >40 1 Copper ppm ASTM D6185n >40 1 Copper ppm ASTM D6185n >40 1 Copper ppm ASTM D6185n >30 129 Tin ppm ASTM D6185n >30 129 Tin ppm ASTM D6185n >30 129 Vanadium White Metal scalar "Visual NONE NONE Vellow Metal scalar "Visual NONE NONE Tin ppm ASTM D6185n >20 3 There is no indication of any contamination in the oil. Silicon ppm ASTM D6185n >20 12 Fuel WC Method >0 2 NEG Glycol WC Method >0 NEG Sulfation Abs/im "ASTM D784 >3 0.6 Sulfation Abs/im "ASTM D784 >3 0.6 Debris scalar "Visual NONE NONE Debris Scalar "Visual NONE Debris Scalar "Visual NONE Debris Scalar "Visual NONE Debris Scalar "Visual NONE	WEAR		ppm					
Nicker Shill Shi	All component wear rates are normal.		ppm					
Silver		Nickel	ppm		>4	<1		
Aluminum			ppm	ASTM D5185m		<1		
Lead ppm ASTM D5185m 3-40 1			ppm	ASTM D5185m	>3	0		
Copper		Aluminum	ppm	ASTM D5185m	>20	7		
Tin			ppm			1		
Vanadium Vanadium			ppm					
White Metal Scalar "Visual NONE NO		Tin	ppm	ASTM D5185m	>15	2		
Vellow Metal Scalar Visual NONE NONE CONTAMINATION Potassium ppm ASTM D5185m >25 12 Potassium ppm ASTM D5185m >20 3 Water WC Method >5 <1.0 Water WC Method 0.2 NEG Glycol WC Method 0.2 NEG Soot % % % '** ASTM D7844 >3 0.6 Nitration Abs/:mm 'ASTM D7844 >20 11.0 Sulfation Abs/:mm 'ASTM D7844 >3 0.6 Silt Scalar 'Visual NONE NONE Sulfation Abs/:mm 'ASTM D7844 >3 0.6 Silt Scalar 'Visual NONE NONE Debris Scalar 'Visual NONE NONE Odor Scalar 'Visual NORML			ppm			<1		
Silicon ppm ASTM D5185m >25 12		White Metal	scalar	*Visual				
Potassium ppm ASTM D5185m 20 3		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m 20 3	CONTAMINATION	Silicon	nnm	ASTM D5185m	>25	12		
Fuel WC Method >5 <1.0	CONTAMINATION							
Water WC Method So.2 NEG So.5 Neg Neg So.5 Neg So.	There is no indication of any contamination in the oil.		ррпп					
Giycol Scot % % 'ASTM D7844 3 0.6 Nitration Abs/cm 'ASTM D7624 >20 11.0 Sulfation Abs/m 'ASTM D7624 >20 11.0 Sulfation Abs/m 'ASTM D7415 >30 20.7 Silt scalar 'Visual NONE NONE NONE Silt scalar 'Visual NONE NONE NONE Debris scalar 'Visual NONE NONE NONE Appearance scalar 'Visual NORML N								
Soot %					70.2			
Nitration Abs/cm *ASTM D7624 >20 11.0		•	0/2		\ 3			
Sulfation Abs/.tmm 'ASTM D7415 >30 20.7								
Silt Scalar Visual NONE NONE NONE NONE Sand/Dirt Scalar Visual NONE N								
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML NORML NORM								
Sand/Dirt Scalar *Visual NONE NORML NORML								
Appearance Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML								
Codor Emulsified Water Scalar *Visual NORML NORML								
Emulsified Water scalar *Visual >0.2 NEG		• •						
Sodium ppm ASTM D5185m >150 2								
Boron ppm ASTM D5185m 83 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 105 Magnesium ppm ASTM D5185m 574 Magnesium ppm ASTM D5185m 1445 Calcium ppm ASTM D5185m 1445 Phosphorus ppm ASTM D5185m 83 Magnesium ppm ASTM D5185m 105 Magnesium ppm ASTM D5185m 574 Calcium ppm ASTM D5185m 821 Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D71414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0								
Boron ppm ASTM D5185m 83 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 105 Magnesium ppm ASTM D5185m 574 Magnesium ppm ASTM D5185m 1445 Calcium ppm ASTM D5185m 1445 Phosphorus ppm ASTM D5185m 83 Magnesium ppm ASTM D5185m 105 Magnesium ppm ASTM D5185m 574 Calcium ppm ASTM D5185m 821 Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D71414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>150	2		
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 105 Manganese ppm ASTM D5185m 574 Calcium ppm ASTM D5185m 1445 Phosphorus ppm ASTM D5185m 821 Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0			ppm	ASTM D5185m		83		
Molybdenum ppm ASTM D5185m 105 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 574 Calcium ppm ASTM D5185m 1445 Phosphorus ppm ASTM D5185m 821 Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0			ppm	ASTM D5185m		0		
Magnesium ppm ASTM D5185m 574 Calcium ppm ASTM D5185m 1445 Phosphorus ppm ASTM D5185m 821 Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0			ppm			105		
Calcium ppm ASTM D5185m 1445 Phosphorus ppm ASTM D5185m 821 Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0		Manganese	ppm					
Phosphorus ppm ASTM D5185m 821 Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0		•	ppm	ASTM D5185m		574		
Zinc ppm ASTM D5185m 984 Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0			ppm					
Sulfur ppm ASTM D5185m 2658 Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0			ppm					
Oxidation Abs/.1mm *ASTM D7414 >25 19.0 Base Number (BN) mg KOH/g ASTM D2896 6.0			ppm					
Base Number (BN) mg KOH/g ASTM D2896 6.0			ppm	ASTM D5185m				
					>25			
Visc @ 100°C cSt ASTM D445								
		Visc @ 100°C	cSt	ASTM D445		12.9		







Laboratory

Sample No. Lab Number : 06234582

Unique Number : 11123416 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : RPL0021169 : 12 Jul 2024 **Tested** : 12 Jul 2024

Diagnosed : 12 Jul 2024 - Wes Davis

Certificate L2367 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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