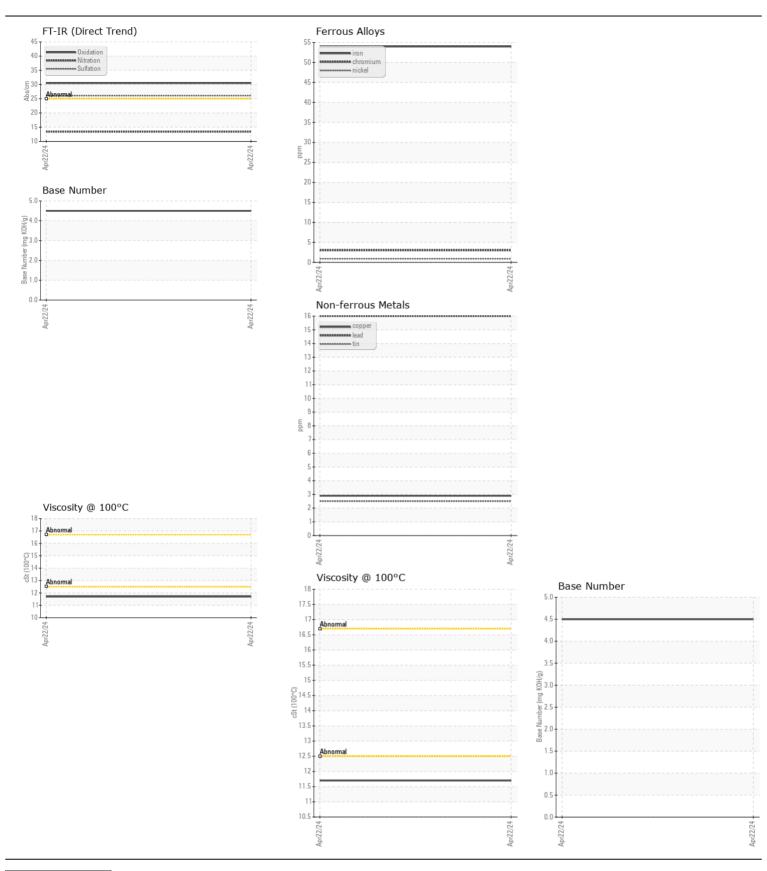
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

Machine Id

NOT GIVEN IL06157200 Component Diesel Engine

Fluid {not provided} (--- GAL)

Sample Number Cilent Info 2,247 2024 Control Info Copper Control Info Copper	{not provided} (GAL)					.,		
Sample Number Client Info Sample Date Client Info Client Info	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Patter Client Info O O O O O O O O O		Sample Number		Client Info		IL06157200		
Machine Age mis Cilent Info 0	Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Date		Client Info		22 Apr 2024		
Oil Age mils Client Info O		Machine Age	mls	Client Info		0		
Filter Age		Oil Age		Client Info		0		
Filter Changed Sample Status			mls	Client Info		0		
Filter Changed Sample Status		Oil Changed		Client Info		N/A		
Normal N		_		Client Info		N/A		
Chromium Opt ASTM D5185m 2-0 3		_				NORMAL		
Chromium Opt ASTM D5185m 2-0 3	WEAR	Iron	nnm	ASTM D5185m	>100	54		
Nickel ppm ASTM D5856 >4 <1	WLAN							
Titanium ppm ASTM D6185m <1 Silver ppm ASTM D6185m >2 <1 Aluminum ppm ASTM D6185m >2 16 Aluminum ppm ASTM D6185m >2 16 Copper ppm ASTM D6185m >3 3 Tin ppm ASTM D6185m >3 3 Tin ppm ASTM D6185m >3 3 Tin ppm ASTM D6185m >3 3 Vanadium ppm ASTM D6185m >3 3 Vanadium ppm ASTM D6185m >15 2 Vanadium ppm ASTM D6185m >15 2 Vanadium ppm ASTM D6185m >25 10 Potassium ppm ASTM D6185m >25 10 Potassium ppm ASTM D6185m >20 38 Potassium ppm ASTM D6185m >20 Po	All component wear rates are normal.							
Silver					>4			
Aluminum ppm ASTM D5185m >20 16					0			
Lead								
Copper								
Tin								
Vanadium Vanadium								
White Metal Yellow Metal Scalar *Visual NONE NON					>15			
Silicon ppm ASTM D5185m 2-2 3-2 3-2 3-2 3-2 3-2 3-3								
Silicon ppm ASTM D5185m >25 10								
Potassium ppm ASTM D5185m >20 38		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 38	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	10		
Water	There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	38		
Glycol WC Method NEG Soot % % % *ASTM D7844 >3 0.6 Suffation Abs/cm *ASTM D7824 >20 13.4 Suffation Abs/cm *ASTM D7824 >20 13.4 Suffation Abs/cm *ASTM D7824 >20 13.4 Suffation Abs/cm *ASTM D7824 >20 26.1 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE NONE Appearance scalar *Visual NORML Debris scalar *Visual NORML NORML NORML NORML NORML NORML Appearance scalar *Visual NORML NORML NORML Debris scalar *Visual NORML NORML NORML NORML NORML Debris scalar *Visual NORML		Fuel	%	ASTM D3524	>5	<1.0		
Soot %		Water		WC Method	>0.2	NEG		
Nitration Abs/.mm *ASTM D7624 >20 13.4		Glycol		WC Method		NEG		
Sulfation Abs/1mm *ASTM D7415 >30 26.1 Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NOR		Soot %	%	*ASTM D7844	>3	0.6		
Silt Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NORML		Nitration	Abs/cm	*ASTM D7624	>20	13.4		
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NONE		Sulfation	Abs/.1mm	*ASTM D7415	>30	26.1		
Sand/Dirt scalar *Visual NONE NONE NORML		Silt	scalar	*Visual	NONE	NONE		
Appearance Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML		Debris	scalar	*Visual	NONE	NONE		
Codor Emulsified Water Scalar *Visual NORML NEG NORML		Sand/Dirt	scalar	*Visual	NONE	NONE		
Emulsified Water scalar *Visual >0.2 NEG		Appearance	scalar	*Visual	NORML	NORML		
Sodium ppm ASTM D5185m 23		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 23 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 48 Manganese ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 479 Calcium ppm ASTM D5185m 1586 Phosphorus ppm ASTM D5185m 1586 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOHlg ASTM D2896 4.5		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 23 Barium ppm ASTM D5185m 0 Molybdenum ppm ASTM D5185m 48 Manganese ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 2 Manganese ppm ASTM D5185m 479 Calcium ppm ASTM D5185m 1586 Phosphorus ppm ASTM D5185m 1586 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOHlg ASTM D2896 4.5	ELUID CONDITION	Sodium	nnm	ACTM DE195m		_1		
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 48 Molybdenum ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 479 Calcium ppm ASTM D5185m 1586 Phosphorus ppm ASTM D5185m 690 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 ASTM D5185m ASTM D5185m 2299 ASTM D5185m ASTM D5185m 2299 ASTM D5185m ASTM D5185m ASTM D5185m 2299 ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m 2299 ASTM D5185m ASTM D	LOID CONDITION							
Molybdenum ppm ASTM D5185m 48 Magnesium ppm ASTM D5185m 479 Magnesium ppm ASTM D5185m 479 Calcium ppm ASTM D5185m 1586 Phosphorus ppm ASTM D5185m 690 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5	The BN result indicates that there is suitable alkalinity remaining in the							
Manganese ppm ASTM D5185m 2 Magnesium ppm ASTM D5185m 479 Calcium ppm ASTM D5185m 1586 Phosphorus ppm ASTM D5185m 690 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5	oil. The condition of the oil is suitable for further service.							
Magnesium ppm ASTM D5185m 479 Calcium ppm ASTM D5185m 1586 Phosphorus ppm ASTM D5185m 690 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5		•						
Calcium ppm ASTM D5185m 1586 Phosphorus ppm ASTM D5185m 690 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5								
Phosphorus ppm ASTM D5185m 690 Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5		-						
Zinc ppm ASTM D5185m 894 Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5								
Sulfur ppm ASTM D5185m 2299 Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5								
Oxidation Abs/.1mm *ASTM D7414 >25 30.5 Base Number (BN) mg KOH/g ASTM D2896 4.5								
Base Number (BN) mg KOH/g ASTM D2896 4.5								
					>25			
Visc @ 100°C cSt ASTM D445		,						
		Visc @ 100°C	cSt	ASTM D445		11.7		







Report Id: IDEATLGA [WUSCAR] 06157200 (Generated: 04/25/2024 09:26:47) Rev: 1

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : IL06157200 **Lab Number** : 06157200

Unique Number : 10992623

Received **Tested**

: 23 Apr 2024 Diagnosed

: 24 Apr 2024 : 25 Apr 2024 - Jonathan Hester Test Package : FLEET (Additional Tests: FuelDilution)

IDEALEASE OF ATLANTA - FULTON 4675 BAKERS FERRY ROAD ATLANTA, GA

US 30331 Contact: DAVID JOHNS davidjohns@idealease.com

T: (404)699-5571

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) F: (404)699-7420