

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

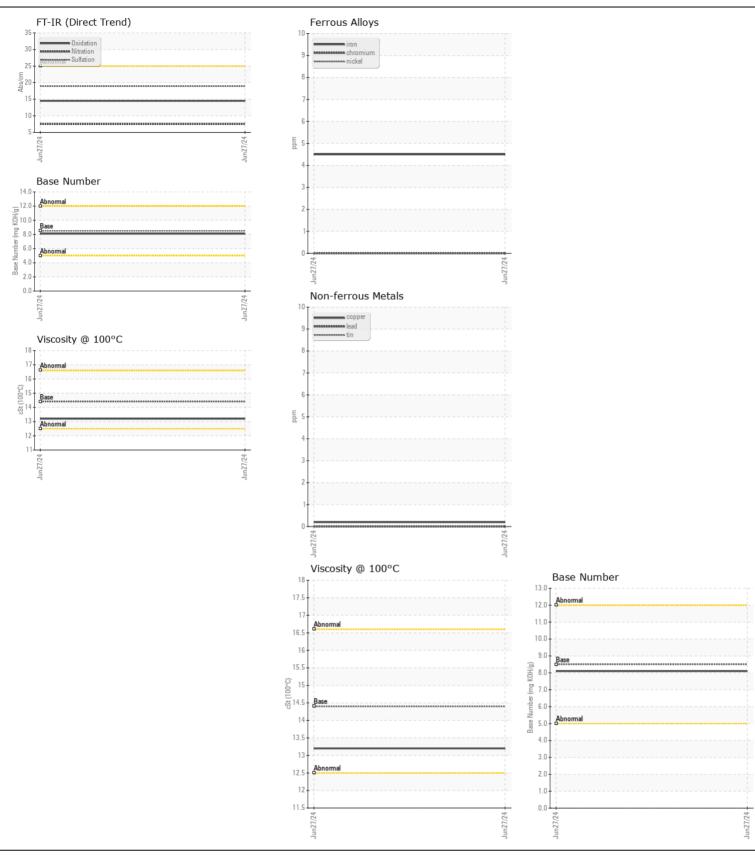
Machine Id

G88

Component
Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the Prince of Client Info Changed Filter Changed Client Info Changed Changed Client Info Changed Client Info Changed Client Info Changed Changed Client Info Changed Changed Client Info Changed Changed Client Info Changed Ch	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Sample Date Sample	RECOMMENDATION		UOIVI		LIIIIIUAUII			
Machine Age More	component make and model with your next sample. Please specify the							
Oil Age			hrs					
Filter Age Pist Client Info Changed Client Info Client Info	brand, type, and viscosity of the oil on your next sample.	•						
Oil Changed Chient Info Changed Changed Chient Info Changed Changed Changed Changed Changed Chient Info Changed Changed Changed Chient Info Changed Chient Info Changed Chient Info Changed Chient Info Chient Inf								
Filter Changed Client Info Changed Client Info Changed		-						
Iron		_		Client Info				
All component wear rates are normal. Chromium ppm ASTM D5185m 20 0 Titanium ppm ASTM D5185m 30 All uninum ppm ASTM D5185m 20 0 All uninum ppm ASTM D5185m 10 0 0 All uninum ppm ASTM D5185m 10 0 0 All uninum ppm ASTM D5185m 10 0 0		Sample Status				NORMAL		
All component wear rates are normal. Chromium ppm ASTM D5185m 20 0 Titanium ppm ASTM D5185m 30 All uninum ppm ASTM D5185m 20 0 All uninum ppm ASTM D5185m 10 0 0 All uninum ppm ASTM D5185m 10 0 0 All uninum ppm ASTM D5185m 10 0 0	WEAD	lvan		ACTM DE10Em	. 100			
All component wear rates are normal. Nickel ppm ASTM 05185m 0 Striver ppm ASTM 05185m 3 0 Striver ppm ASTM 05185m 3 0 All uminum ppm ASTM 05185m 3 0 All uminum ppm ASTM 05185m 3 0 Lead ppm ASTM 05185m 3 0 Lead ppm ASTM 05185m 3 0 Copper ppm ASTM 05185m 3 0 Vanadium ppm ASTM 05185m 2 0 Value W. O. Method 0 0 0 Value W. O. Method 0 0 0 0 Value W. O. Method 0 0 0 0 0 0 Value W. O. Method 0 0 0 0 0 0 Value W. O. Method 0 0 0 0 0 0 0 Value W. O. Method 0 0 0 0 0 0 0 Value W. O. Method 0 0 0 0 0 0 0 0 Value W. O. Method 0 0 0 0 0 0 0 0 0	WEAN							
Titanium ppm ASTM D5185m >3 0	All component wear rates are normal.							
Silver ppm ASTM D5186m >20 <1					>4			
Aluminum ppm ASTM D5186m >20 <1 Lead ppm ASTM D5186m >340 0 Copper ppm ASTM D5186m >330 <1 Tin ppm ASTM D5186m >15 0 White Metal scalar Visual NONE NONE Water WC Method 50 <1 Soot % % % STM D784 >3 0.3 Soot % % % STM D784 >3 0.3 Sand/Dirt scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Public Water scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Public Water scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Public Water scalar Visual NONE NONE Sand/Dirt scalar Visual NONE NONE Public Water Scalar					~3			
Lead			• •					
Copper								
Tin			• •					
Vanadium ppm ASTM D5185m NONE NONE NONE Value None Non		• • •						
White Metal Scalar *Visual NONE NO					710			
Secont					NONE	_		
Silicon ppm ASTM D5185m >25 3						_		
Potassium ppm ASTM 05185m >20 <1								
Fuel WC Method So.2 NEG So.2 So.2 NEG So.	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3		
Water W.C. Method So.2 NEG NEG So.5 Nitration Abs/rm NASTM D7844 So.5 Sulfation Abs/rm NASTM D7844 So.5 Sulfation Abs/rm NASTM D7844 So.5 Sulfation Abs/rm None None So.5 Sulfation Abs/rm None None None So.5 Sulfation Abs/rm None		Potassium	ppm	ASTM D5185m	>20	<1		
Glycol	There is no indication of any contamination in the oil.					<1.0		
Soot %		Water		WC Method	>0.2	NEG		
Nitration		Glycol		WC Method		NEG		
Sulfation Abs/.fmm *ASTM D7415 >30 18.9			%	*ASTM D7844	>3	0.3		
Silt scalar *Visual NONE NONE NONE Sand/Dirt scalar *Visual NONE		Nitration	Abs/cm			7.5		
Debris Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NONE Sand/Dirt Scalar *Visual NONE NORML Scalar *Visual NORML Scalar *Visual NORML Scalar *Visual NORML NORML *Visual NORML *Visual NORML *Visual NORML *Visual *Visual NORML *Visual *			Abs/.1mm	*ASTM D7415				
Sand/Dirt Scalar *Visual NONE NONE NONE Appearance Scalar *Visual NORML NORM								
Appearance			scalar					
Codor Scalar *Visual NORML N								
Emulsified Water scalar *Visual >0.2 NEG								
Sodium ppm ASTM D5185m >158 2								
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service. Boron ppm ASTM D5185m 10 <1 Molybdenum ppm ASTM D5185m 100 60 Magnesium ppm ASTM D5185m 450 960 Magnesium ppm ASTM D5185m 3000 1168 Calcium ppm ASTM D5185m 1350 1254 Zinc ppm ASTM D5185m 4250 3603 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1		Emulsified Water	scalar	*Visual	>0.2	NEG		
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 100 60 Molybdenum ppm ASTM D5185m 100 60 Manganese ppm ASTM D5185m 450 960 Calcium ppm ASTM D5185m 3000 1168 Calcium ppm ASTM D5185m 1150 1009 Zinc ppm ASTM D5185m 1350 1254 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2		
oil. The condition of the oil is suitable for further service. Molybdenum ppm ASTM D5185m 100 60 Magnesium ppm ASTM D5185m 450 960 Calcium ppm ASTM D5185m 3000 1168 Phosphorus ppm ASTM D5185m 1150 1009 Zinc ppm ASTM D5185m 1350 1254 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1		Boron	ppm	ASTM D5185m	250	6		
Molybdenum ppm ASTM D5185m 100 60 Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 450 960 Calcium ppm ASTM D5185m 3000 1168 Phosphorus ppm ASTM D5185m 1150 1009 Zinc ppm ASTM D5185m 1350 1254 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1		Barium	ppm	ASTM D5185m	10	<1		
Magnesium ppm ASTM D5185m 450 960 Calcium ppm ASTM D5185m 3000 1168 Phosphorus ppm ASTM D5185m 1150 1009 Zinc ppm ASTM D5185m 1350 1254 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1		Molybdenum	ppm	ASTM D5185m	100	60		
Calcium ppm ASTM D5185m 3000 1168 Phosphorus ppm ASTM D5185m 1150 1009 Zinc ppm ASTM D5185m 1350 1254 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1		Manganese	ppm	ASTM D5185m		<1		
Phosphorus ppm ASTM D5185m 1150 1009 Zinc ppm ASTM D5185m 1350 1254 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1		•	ppm	ASTM D5185m	450	960		
Zinc ppm ASTM D5185m 1350 1254 Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1			ppm					
Sulfur ppm ASTM D5185m 4250 3603 Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1		•	ppm					
Oxidation Abs/.1mm *ASTM D7414 >25 14.5 Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1			ppm					
Base Number (BN) mg KOH/g ASTM D2896 8.5 8.1								
Visc @ 100°C cSt ASTM D445 14.4 13.2								
		Visc @ 100°C	cSt	ASTM D445	14.4	13.2	<i>,</i>	







Certificate L2367

Laboratory Sample No.

Lab Number : 06229387 Unique Number : 11112880

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0874336

Tested Diagnosed Test Package : CONST (Additional Tests: TBN)

Received : 05 Jul 2024 : 09 Jul 2024

: 09 Jul 2024 - Wes Davis

Apple Valley Waste - EHT Location

6626 Delilah Road Egg Harbor Township, NJ US 08234

Contact: Service Manager

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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