WEAR CONTAMINATION FLUID CONDITION

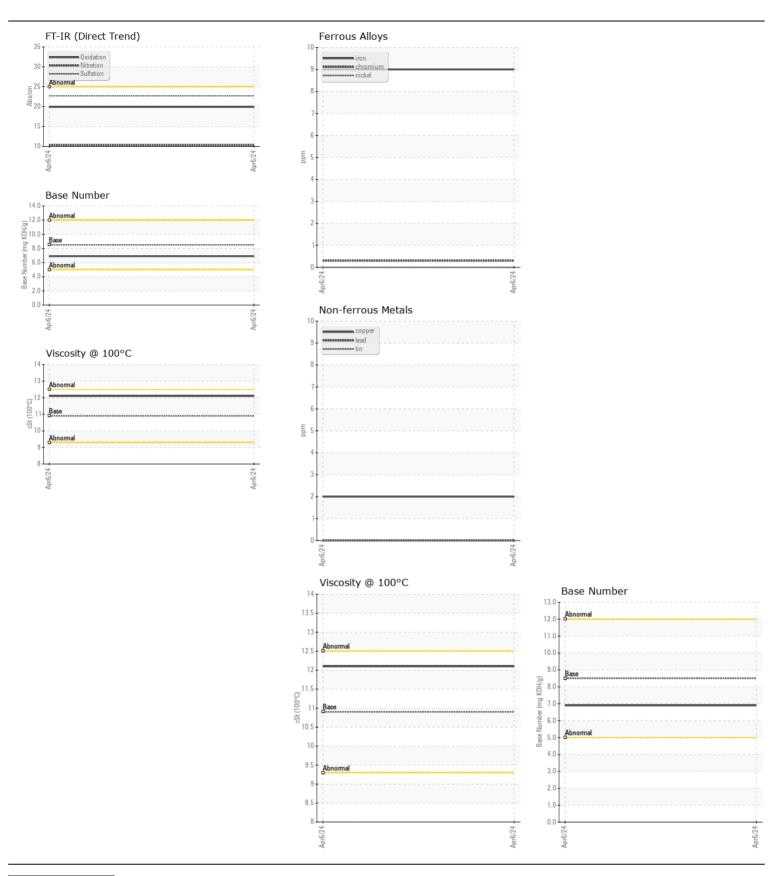
NORMAL NORMAL NORMAL

Machine Id

FSM-02

Component Diesel Engine

Recommend to monitor 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 brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the brand type, and viscosity of the oil on your next sample. Please specify the oil oil on your next sample. Please specify the oil of the time to the brand type, and viscosity of the oil of the oil on your next sample. Please specify the oil oil on your next sample. Please specify the oil oil oil on your next sample. Please specify the oil oil on your next sample. Please specify the oil oil oil on your next sample. Please specify the oil oil oil on your next sample. Please specify the oil oil oil on your next sample. Please specify the oil oil oil on your next sample	DIESEL ENGINE OIL SAE 10W30 (QTS)							
Rosample at the next service interval to monitor. 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 brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the please specify th	RECOMMENDATION	Test	LIOM	Method	Limit/Ahn	Current	History1	History2
Resample at the next service interval to monitor. Please specify the toromponent make and model with your next sample. Sample Date Machine Age mis Client Info 0	Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the		OOW		LITTION		,	
Machine Age Miss Cilent Info		•						
Oil Age			mls					
Filter Age		ū						
Color								
Filter Changed Client Info Changed Cha		•				-		
Normal N								
All component wear rates are normal. Nicke		-				_		
All component wear rates are normal. Nicke	WFAR	Iron	maa	ASTM D5185m	>100	9		
Nicke								
Titanium ppm ASTM D5185m 3 0								
Silver ppm ASTM D5185m >20								
Aluminum ppm ASTM D5185m >20 1					>3			
Lead								
Copper								
Tin						-		
Vanadium Vanadium						0		
White Metal Scalar *Visual NONE NO		Vanadium		ASTM D5185m		0		
Solicon					NONE	NONE		
Potassium ppm ASTM D5185m >20 0		Yellow Metal		*Visual	NONE			
Potassium ppm ASTM D5185m >20 0	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	3		
Fuel WC Method S-5 -1.0 Water WC Method S-5 S-6		Potassium		ASTM D5185m	>20	0		
Water WC Method 0.0.2 NEG Glycol WC Method Soot % WC Method NEG Soot % % "ASTM D7844 >3 0.5 Nitration Abs/mm "ASTM D7824 >20 10.3 Sulfation Abs/mm "ASTM D7824 >20 10.3 Silt Scalar "Visual NONE NONE NONE Silt Scalar "Visual NONE NONE NONE Sand/Dirt Scalar "Visual NORM NONE Appearance Scalar "Visual NORM	There is no indication of any contamination in the oil.		1-1-					
Glycol		Water		WC Method	>0.2			
Soot %		Glycol				NEG		
Nitration Abs/cm *ASTM D7624 >20 10.3			%	*ASTM D7844	>3	0.5		
Silt scalar *Visual NONE NONE NONE		Nitration	Abs/cm					
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 *Visual *Visual *Visual *Visual *Visual *Vis		Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7		
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 250 13		Odor	scalar	*Visual	NORML	NORML		
Boron ppm ASTM D5185m 250 13 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 63 Magnesium ppm ASTM D5185m 100 63 Magnesium ppm ASTM D5185m 450 998 Calcium ppm ASTM D5185m 3000 1304 Phosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		Emulsified Water	scalar	*Visual	>0.2	NEG		
Boron ppm ASTM D5185m 250 13 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 63 Magnesium ppm ASTM D5185m 100 63 Magnesium ppm ASTM D5185m 450 998 Calcium ppm ASTM D5185m 3000 1304 Phosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9	FLUID CONDITION	Sodium	ppm	ASTM D5185m		2		
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 63 Molybdenum ppm ASTM D5185m 100 63 Magnesium ppm ASTM D5185m 450 998 Calcium ppm ASTM D5185m 3000 1304 Phosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9	The BN result indicates that there is suitable alkalinity remaining in the				250	13		
Molybdenum ppm ASTM D5185m 100 63 Manganese ppm ASTM D5185m 450 998 Calcium ppm ASTM D5185m 3000 1304 Thosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Thosphorus ppm ASTM D5185m 4250 3691								
Magnesium ppm ASTM D5185m 450 998 Calcium ppm ASTM D5185m 3000 1304 Phosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		Molybdenum	ppm	ASTM D5185m	100	63		
Magnesium ppm ASTM D5185m 450 998 Calcium ppm ASTM D5185m 3000 1304 Phosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		Manganese	ppm	ASTM D5185m		<1		
Calcium ppm ASTM D5185m 3000 1304 Phosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		Magnesium		ASTM D5185m	450			
Phosphorus ppm ASTM D5185m 1150 1192 Zinc ppm ASTM D5185m 1350 1426 Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		_						
Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		Phosphorus		ASTM D5185m	1150	1192		
Sulfur ppm ASTM D5185m 4250 3691 Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		Zinc		ASTM D5185m	1350			
Oxidation Abs/.1mm *ASTM D7414 >25 19.9 Base Number (BN) mg KOH/g ASTM D2896 8.5 6.9		Sulfur	ppm	ASTM D5185m	4250	3691		
		Oxidation	Abs/.1mm			19.9		
Visc @ 100°C cSt ASTM D445 10.9 12.1		Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.9		
		Visc @ 100°C	cSt	ASTM D445	10.9	12.1		







Certificate L2367

Laboratory Sample No.

: WC0926076 **Lab Number** : 06150130 Unique Number : 10980208 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Apr 2024 **Tested** : 17 Apr 2024

Diagnosed : 17 Apr 2024 - Wes Davis

CARCO TRANSPORTATION 3403 EAST ROOSEVELT ROAD

LITTLE ROCK, AR US 72206

Contact: DENNIS CATES denniscates@carcotrans.com T: (800)967-0777

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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