

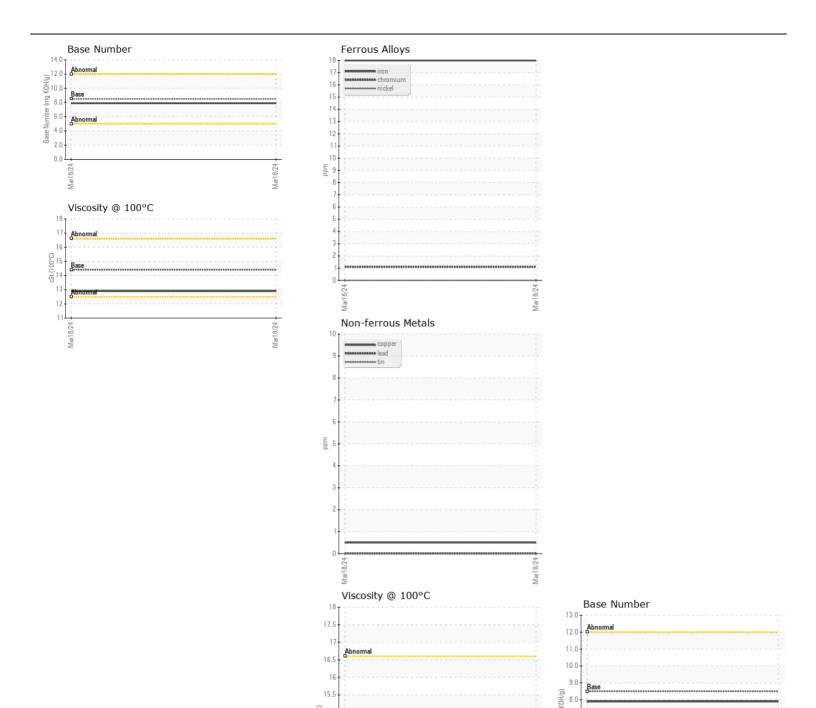
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **13715**

Diesel Engine

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 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 o	Diesel Engine Pluid DIESEL ENGINE OIL SAE 15W40 (QTS)							
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 branch, type, and viscosity of the oil on your next sample. Please specify the branch, type, and viscosity of the oil on your next sample. Please specify the branch, type, and viscosity of the oil on your next sample. Please specify the branch, type, and viscosity of the oil on your next sample. Please specify the branch, type, and viscosity of the oil on your next sample. Please specify the branch type, and viscosity of the oil on your next sample. Please specify the branch type, and viscosity of the oil on your next sample. Please specify the branch type, and viscosity of the oil on your next sample. Please specify the branch type, and viscosity of the oil on your next sample. Please specify the branch type, and viscosity of the oil on your next sample. Please specify the branch type, and viscosity of the oil of the	BECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Date Client Info Titled Sample Please specify the brand, type, and viscosity of the oil on your next sample. Please specify the prand, type, and viscosity of the oil on your next sample. Please specify the pith of high property in the part of the pa		Sample Number		Client Info		WC0915993		
Depart D	component make and model with your next sample. Please specify the	Sample Date		Client Info		18 Mar 2024		
Metal levels are typical for a new component breaking in. Motel Part Pa		Machine Age	mls	Client Info		71843		
Colic Changed Client Info Changed Client Info Changed Changed Client Info Changed Changed Client Info Changed Ch		Oil Age	mls	Client Info		9474		
Filter Changed Sample Status		Filter Age	mls	Client Info		9474		
Metal levels are typical for a new component breaking in. Iron		Oil Changed		Client Info		Changed		
Iron		Filter Changed		Client Info		Changed		
Chromium Chromium		Sample Status				NORMAL		
Chromium Chromium								
Mickel ppm ASTM D5185m >4 0	WEAR	Iron	ppm	ASTM D5185m	>100	18		
Titanium Silver ppm ASTM D6185m 0	Metal levels are typical for a new component breaking in.		ppm	ASTM D5185m	>20	1		
Silver ppm ASTM D5185m >3 0		Nickel	ppm		>4	0		
Aluminum			ppm	ASTM D5185m				
Lead			ppm					
Copper ppm ASTM D5185m >3.30 <1		Aluminum	ppm	ASTM D5185m	>20			
Time		Lead	ppm					
Vanadium			ppm					
White Metal Scalar *Visual NONE NO		Tin	ppm		>15	0		
Vellow Metal Scalar Visual NONE NONE			ppm					
Silicon ppm ASTM D5185m >25 6			scalar					
Potassium ppm ASTM D5185m >20 12		Yellow Metal	scalar	*Visual	NONE	NONE		
Potassium ppm ASTM D5185m >20 12	CONTAMINATION	Ciliaan	n.n.m	ACTM DE10Em	. 05	6		
Fuel WC Method Solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil. Water WC Method NeG WC Me	CONTAMINATION		• •					
Water WC Method Solution Water WC Method NEG WC Meth	your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no		ppm					
Glycol								
Soot %					>0.2			
Nitration Abs/cm *ASTM D7624 >20 8.8 Sulfation Abs/.tmm *ASTM D7415 >30 23.5 Silt scalar *Visual NONE NONE NONE Debris scalar *Visual NONE NONE Sand/Dirt scalar *Visual NONE NONE Appearance scalar *Visual NORML NOR		-	0/		. 2			
Sulfation Abs./tmm *ASTM D7415 >30 23.5								
Silt scalar *Visual NONE NONE Debris scalar *Visual NONE NORML								
Debris Scalar *Visual NONE NONE NONE Sand/Dirt Scalar *Visual NONE NORML NORML								
Sand/Dirt Scalar *Visual NONE NONE NORML Appearance Scalar *Visual NORML								
Appearance Scalar *Visual NORML NORML NORML Emulsified Water Scalar *Visual NORML NORML NORML NORML Emulsified Water Scalar *Visual NORML								
Dodor Scalar *Visual NORML NORML Emulsified Water Scalar *Visual NORML NOR								
Emulsified Water scalar *Visual >0.2 NEG								
Sodium ppm ASTM D5185m >158 <1 Boron ppm ASTM D5185m 250 236 Barium ppm ASTM D5185m 10 0 Molybdenum ppm ASTM D5185m 100 122 Magnesium ppm ASTM D5185m 450 719 Calcium ppm ASTM D5185m 3000 1634 Phosphorus ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOHg ASTM D2896 8.5 7.9								
Boron ppm ASTM D5185m 250 236 Magnesium ppm ASTM D5185m 100 122 Magnesium ppm ASTM D5185m 100 122 Magnesium ppm ASTM D5185m 450 719 Calcium ppm ASTM D5185m 150 851 Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9	·			Visuai				
Boron ppm ASTM D5185m 250 236 Magnesium ppm ASTM D5185m 100 122 Magnesium ppm ASTM D5185m 100 122 Magnesium ppm ASTM D5185m 450 719 Calcium ppm ASTM D5185m 150 851 Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9	FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	<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 10 122 Molybdenum ppm ASTM D5185m 100 122 Manganese ppm ASTM D5185m 450 719 Calcium ppm ASTM D5185m 3000 1634 Calcium ppm ASTM D5185m 1150 851 Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9			• • •					
Molybdenum ppm ASTM D5185m 100 122 Manganese ppm ASTM D5185m 450 719 Magnesium ppm ASTM D5185m 3000 1634 Calcium ppm ASTM D5185m 1150 851 Phosphorus ppm ASTM D5185m 1350 988 Zinc ppm ASTM D5185m 4250 3316 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9		Barium						
Manganese ppm ASTM D5185m <1 Magnesium ppm ASTM D5185m 450 719 Calcium ppm ASTM D5185m 3000 1634 Phosphorus ppm ASTM D5185m 1150 851 Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9		Molybdenum	• •	ASTM D5185m	100			
Magnesium ppm ASTM D5185m 450 719 Calcium ppm ASTM D5185m 3000 1634 Phosphorus ppm ASTM D5185m 1150 851 Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9		•						
Calcium ppm ASTM D5185m 3000 1634 Phosphorus ppm ASTM D5185m 1150 851 Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9					450			
Phosphorus ppm ASTM D5185m 1150 851 Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9		•						
Zinc ppm ASTM D5185m 1350 988 Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9		Phosphorus				851		
Sulfur ppm ASTM D5185m 4250 3316 Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9				ASTM D5185m	1350			
Oxidation Abs/.1mm *ASTM D7414 >25 18.1 Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9			• • •					
Base Number (BN) mg KOH/g ASTM D2896 8.5 7.9								
		Base Number (BN)	mg KOH/g	ASTM D2896	8.5			
VISC @ 100 O CSC ASTRIBUTES 14.4 (12.9)		Visc @ 100°C	cSt	ASTM D445	14.4	12.9		







Certificate L2367

Laboratory Sample No.

Test Package : FLEET

Lab Number : 06123036 Unique Number: 10937187

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0915993

ਲੂੱ 14.5

13.

12.

11.5

Received : 19 Mar 2024 : 20 Mar 2024 **Tested** Diagnosed

: 20 Mar 2024 - Wes Davis

(mg

6.0 5.0

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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