WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id **10594** 

Component
Diesel Engine

Sample Number   Client Info   WC0879894   WC0879894   WC0879894   Sample Date   Client Info   Client Info   Sample Date   Client Info   Sample Date   Client Info   Sample Date   Client Info   Sample Date   Samp	RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Jean   Client Info   318726   25-85-00   317276   317276	Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the	Sample Number		Client Info		WC0879894	WC0879961	WC084565
Machinite Age   mis		Sample Date		Client Info		30 May 2024	08 Mar 2024	28 Sep 202
Oil Age		Machine Age	mls	Client Info		317276	291757	
Cilchanged   Cilchanged   Cilchanged   Changed   Changed   NA   Changed   NA   Changed   NA   Changed   NA   Changed   NA   NORMAL   NOR		Oil Age	mls	Client Info		25000	25000	0
Filter Changed Sample Status		Filter Age	mls	Client Info		25000	25000	0
Normal   N		Oil Changed		Client Info		Changed	Changed	N/A
Iron		Filter Changed		Client Info		Changed	Changed	N/A
All component wear rates are normal.    Chromium   ppm   ASTM D5185m   >20   <1   <1   <1   <1   <1   <1   <1   <		Sample Status				NORMAL	NORMAL	NORMAL
All component wear rates are normal.    Chromium   ppm   ASTM D5185m   >20   <1   <1   <1   <1   <1   <1   <1   <	WEAR	Iron	ppm	ASTM D5185m	>100	17	21	15
Nickel   ppm   ASTM D5185m   0   <1   <1		Chromium		ASTM D5185m	>20	<1	<1	<1
Titanium		Nickel				0		<1
Aluminum		Titanium		ASTM D5185m		0	<1	<1
Aluminum   ppm   ASTM D5185m   >20   5   5   2		Silver	ppm	ASTM D5185m	>3	0	0	0
Copper		Aluminum	ppm	ASTM D5185m	>20	5	5	2
Tin		Lead	ppm	ASTM D5185m	>40	0	<1	0
Vanadium   ppm   ASTM D5185m   NONE   NONE		Copper	ppm	ASTM D5185m	>330	3	4	3
White Metal   Scalar   *Visual   NONE   NO		Tin	ppm	ASTM D5185m	>15	0	<1	<1
Yellow Metal   Scalar   *Visual   NONE   NONE   NONE   NONE		Vanadium	ppm	ASTM D5185m		0	0	<1
Silicon   ppm   ASTM D5185m   >25   6   8   4		White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium   ppm   ASTM D5185m   >20   16   13   5		Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Potassium   ppm   ASTM D5185m   >20   16   13   5	CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	8	4
your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.    Vater   WC Method   NEG   NEG		Potassium	ppm	ASTM D5185m	>20	16	13	5
Water         WC Method         N.EG         NEG         NEG           Glycol         WC Method         NEG	your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no	Fuel		WC Method	>5	<1.0	<1.0	<1.0
Indication of any contamination in the oil.   Glycol   Soot % %   %   *ASTM D7844   >3   0.6   0.7   0.6   0.7   0.6   0.6   0.7   0.6   0.6   0.7   0.7   0.6   0.7   0.7   0.7   0.7   0.7   0.6   0.7		Water		WC Method	>0.2	NEG	NEG	NEG
Soot % % *ASTM D7844   >3		Glycol		WC Method		NEG	NEG	NEG
Sulfation   Abs/.timm   *ASTM D7415   >30   24.9   24.7   20.7		Soot %	%		>3		0.7	
Silt   scalar *Visual   NONE   NORML   NORM								
Debris   Scalar   *Visual   NONE   NORML   NORML			Abs/.1mm					
Sand/Dirt   Scalar *Visual   NONE   NONE   NONE   NONE   Appearance   Scalar *Visual   NORML   NORML								
Appearance   Scalar   *Visual   NORML   NORM								
Odor   scalar *Visual   NORML   NORML   NORML   Emulsified Water   scalar *Visual   scalar *Visual *Scalar *Visual *Scalar *Scalar *Visual *Scalar *Visual *Scalar *Scalar *Visual *Scalar *Scalar *Visual *Scalar *Scalar *Visual *Scalar *Scalar *Scalar *Visual *Scalar *Scalar *Scalar *Scalar *Scalar *Visual *Scalar *		_						
Emulsified Water   scalar   *Visual   >0.2   NEG   NEG   NEG								
Sodium   ppm   ASTM D5185m   >158   8   4   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   250   100   141   2			Social					NLG
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   0   <1   12     Molybdenum   ppm   ASTM D5185m   100   88   94   71     Manganese   ppm   ASTM D5185m   100   88   94   71     Manganese   ppm   ASTM D5185m   450   427   534   962     Calcium   ppm   ASTM D5185m   3000   1401   1406   1084     Phosphorus   ppm   ASTM D5185m   1150   1064   1108   973     Zinc   ppm   ASTM D5185m   1350   1280   1304   1217     ASTM D5185m   100   0	FLUID CONDITION							
oil. The condition of the oil is suitable for further service.    Molybdenum   ppm   ASTM D5185m   100   88   94   71	,							
Manganese         ppm         ASTM D5185m         <1         <1         <1           Magnesium         ppm         ASTM D5185m         450         427         534         962           Calcium         ppm         ASTM D5185m         3000         1401         1406         1084           Phosphorus         ppm         ASTM D5185m         1150         1064         1108         973           Zinc         ppm         ASTM D5185m         1350         1280         1304         1217								
Magnesium         ppm         ASTM D5185m         450         427         534         962           Calcium         ppm         ASTM D5185m         3000         1401         1406         1084           Phosphorus         ppm         ASTM D5185m         1150         1064         1108         973           Zinc         ppm         ASTM D5185m         1350         1280         1304         1217	condition of the on to datable for fulfiller between	•			100			
Calcium         ppm         ASTM D5185m         3000         1401         1406         1084           Phosphorus         ppm         ASTM D5185m         1150         1064         1108         973           Zinc         ppm         ASTM D5185m         1350         1280         1304         1217	S S. S March of the on to contact of further out vide.		ppm					
Phosphorus         ppm         ASTM D5185m         1150         1064         1108         973           Zinc         ppm         ASTM D5185m         1350         1280         1304         1217	C The secondary of the on to editable for future out vice.		10.10.100					
<b>Zinc</b> ppm ASTM D5185m 1350 <b>1280</b> 1304 1217	C THE SELECTION OF THE CALLED CONTROL OF THE FIRST	Magnesium						
	C THE SECOND OF THE SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	Magnesium Calcium	ppm	ASTM D5185m	3000	1401	1406	1084
	C THE SECTION OF THE SHIPS OF THE HITTER SECTION.	Magnesium Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m	3000 1150	1401 1064	1406 1108	1084 973

Oxidation

Visc @ 100°C cSt

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

20.8

5.6

13.1

20.2

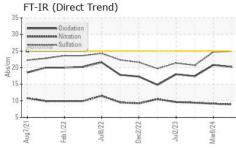
5.5

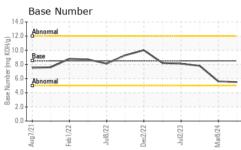
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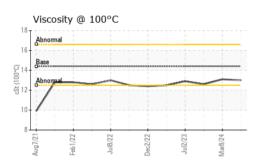
17.4

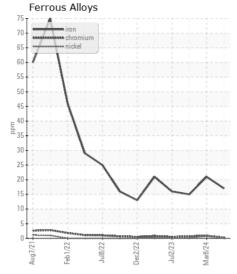
7.8

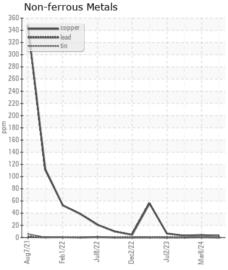
12.6

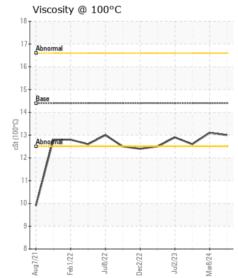


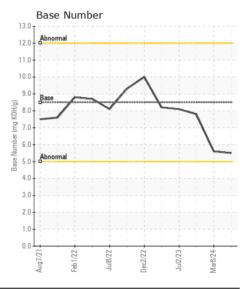














Certificate L2367

Laboratory Sample No.

: WC0879894 Lab Number : 06212907 Unique Number : 11085771 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 19 Jun 2024

: 19 Jun 2024 - Wes Davis Diagnosed

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

Audrey.Hopkins@salemcorp.com

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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)