

WEAR CONTAMINATION FLUID CONDITION

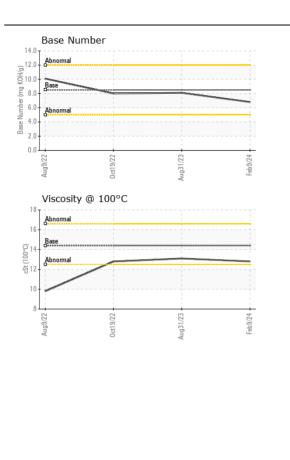
NORMAL NORMAL

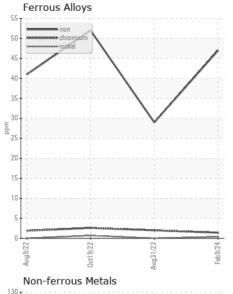
Machine Id

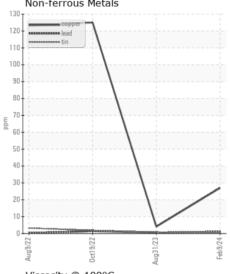
10543

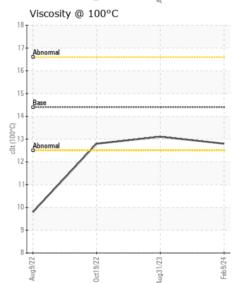
Component
Diesel Engine

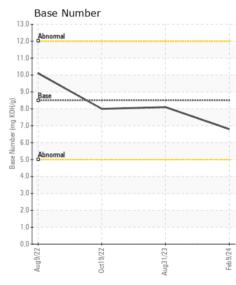
Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 ( QTS)				
RECOMMENDATION Test UOM Method	Limit/Abn	Current	History1	History2
Sample Number Client Info		WC0841814	WC0841751	WC0742155
Resample at the next service interval to monitor. Please specify the		09 Feb 2024	31 Aug 2023	19 Oct 2022
component make and model with your next sample. Please specify the		120410	77381	59486
brand, type, and viscosity of the oil on your next sample.  Oil Age mls Client Info		0	0	0
Filter Age mls Client Info		0	0	0
Oil Changed Client Info		Changed	Changed	Changed
Filter Changed Client Info		Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL
WEAR Ppm ASTM D5185m		47	29	52
All component wear rates are normal.  Chromium ppm ASTM D5185m  ACTM D5085m	>20	1	2	3
Nickei ppm ASIM D3183m		<1	0	<1
Titanium ppm ASTM D5185m		0	0	<1
Silver ppm ASTM D5185m		<1	0	0
Aluminum ppm ASTM D5185m		10	12	23
Lead ppm ASTM D5185m		1	<1	1
Copper ppm ASTM D5185m		27	4	125
Tin ppm ASTM D5185m		<1	<1	2
Vanadium ppm ASTM D5185m		0	0	0
White Metal scalar *Visual	NONE	NONE	NONE	NONE
Yellow Metal scalar *Visual	NONE	NONE	NONE	NONE
CONTAMINATION Silicon ppm ASTM D5185m	<b>&gt;25</b>	7	9	7
Potassium ppm ASTM D5185m		24	29	68
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in  Fuel  WC Method  WC Method		<1.0	<1.0	<1.0
your metals analysis are likely a result of solder flux release into the		NEG	NEG	NEG
lubricant and is common on new equipment/components. There is no	70.L	NEG	NEG	NEG
indication of any contamination in the oil.  Soot % *ASTM D7844	>3	1.1	0.7	1.1
Nitration Abs/cm *ASTM D7624		10.4	9.2	12.7
Sulfation Abs/.1mm *ASTM D7415		23.2	21.2	25.8
Silt scalar *Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual	NORML	NORML	NORML	NORML
Odor scalar *Visual	NORML	NORML	NORML	NORML
Emulsified Water   scalar   *Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION Sodium ppm ASTM D5185m		2	4	3
The BN result indicates that there is suitable alkalinity remaining in the		4	3	5
oil. The condition of the oil is suitable for further service.  Barium ppm ASTM D5185m	10	0	0	0
Molybdenum ppm ASIM D5185m		68	67	63
Manganese ppm ASTM D5185m		<1	2	1
Magnesium ppm ASTM D5185m		999	1016	953
Calcium ppm ASTM D5185m		1132	1127	1339
Phosphorus ppm ASTM D5185m		1019	1004	953
Zinc ppm ASTM D5185m		1312	1293	1234
Sulfur ppm ASTM D5185m		2399	3012	2453
	0.5	20.0	17.2	23.6
Oxidation Abs/.1mm *ASTM D7414				
Oxidation         Abs/.1mm         *ASTM D7414           Base Number (BN)         mg KOH/g         ASTM D2896           Visc @ 100°C         cSt         ASTM D445	8.5	6.8 12.8	8.1	8.0 12.8













Certificate L2367

Laboratory

Sample No.

: WC0841814 Lab Number : 06099725 Unique Number: 10897955 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 : 27 Feb 2024 **Tested** 

: 27 Feb 2024 - Wes Davis Diagnosed

SALEM NATIONALEASE CORPORATION 198 PARK PLAZA DRIVE

WINSTON SALEM, NC US 27105

Contact: Audrey Hopkins Audrey.Hopkins@salemcorp.com

T: (336)767-9642

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: x: