WEAR CONTAMINATION FLUID CONDITION

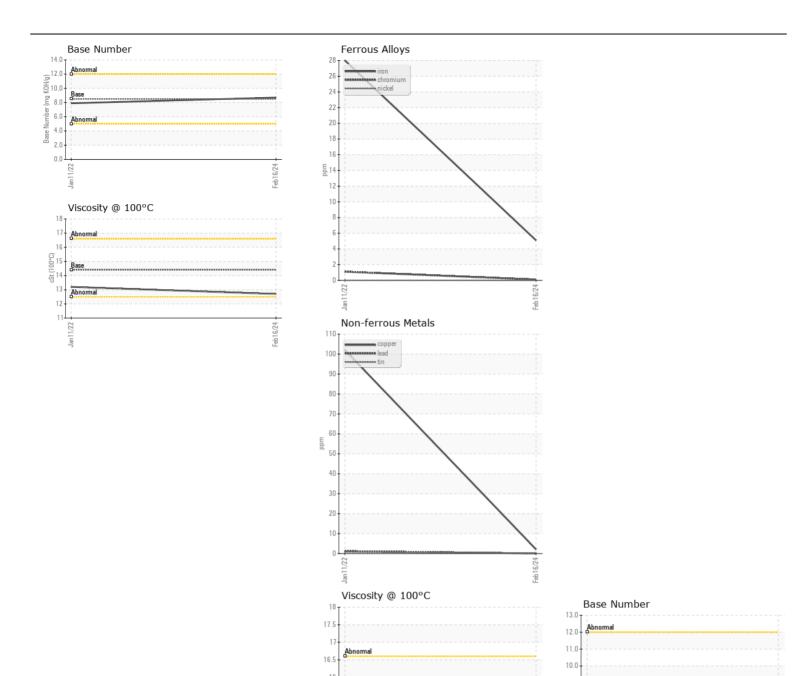
NORMAL NORMAL

Machine Id

BB12041

Component
Diesel Fngine

Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
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. Please specify the brand, type, and viscosity of the oil on your next sample.	Sample Number		Client Info		WC0897160	WC0647596	
	Sample Date		Client Info		16 Feb 2024	11 Jan 2022	
	Machine Age	mls	Client Info		0	42190	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>100	5	28	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	1	
	Nickel	ppm	ASTM D5185m	>4	0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m		8	21	
	Lead	ppm	ASTM D5185m		0	1	
	Copper	ppm	ASTM D5185m		2	102	
	Tin	ppm	ASTM D5185m	>15	<1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	8	
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in 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.	Potassium	ppm	ASTM D5185m	>20	15	55	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844		0.2	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	6.7	11.3	
	Sulfation	Abs/.1mm	*ASTM D7415		19.6	26.0	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris Sand/Dirt	scalar	*Visual	NONE	NONE NONE	NONE NONE	
	Appearance	scalar scalar	*Visual *Visual	NONE NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water			>0.2	NEG	NEG	
			710001				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		138	5	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	-	0	0	
	Molybdenum	ppm	ASTM D5185m	100	76	53	
	Manganese	ppm	ASTM D5185m	1=6	<1	1	
	Magnesium	ppm	ASTM D5185m		845	739	
	Calcium	ppm	ASTM D5185m	3000	1242	1391	
	Phosphorus	ppm	ASTM D5185m		1177	902	
	Zinc	ppm	ASTM D5185m	1350	1375	1193	
	Sulfur Oxidation	ppm Abe/ 1mm	*ASTM D5185m		3634 15.0	2841 21.6	
	Base Number (BN)	Abs/.1mm mg KOH/g	ASTM D7414 ASTM D2896		8.7	7.9	
	Visc @ 100°C	cSt	ASTM D2090		12.7	13.2	
	V130 @ 100 U	COL	THE INITION	17.7	12.1	10.2	-







Laboratory Sample No.

Lab Number : 06103565 Unique Number : 10901795 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897160 Received : 28 Feb 2024 **Tested**

: 01 Mar 2024 : 01 Mar 2024 - Wes Davis Diagnosed

(mg

6.0 5.0

> 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.

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13.

12.

11.5

Jan1

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x: