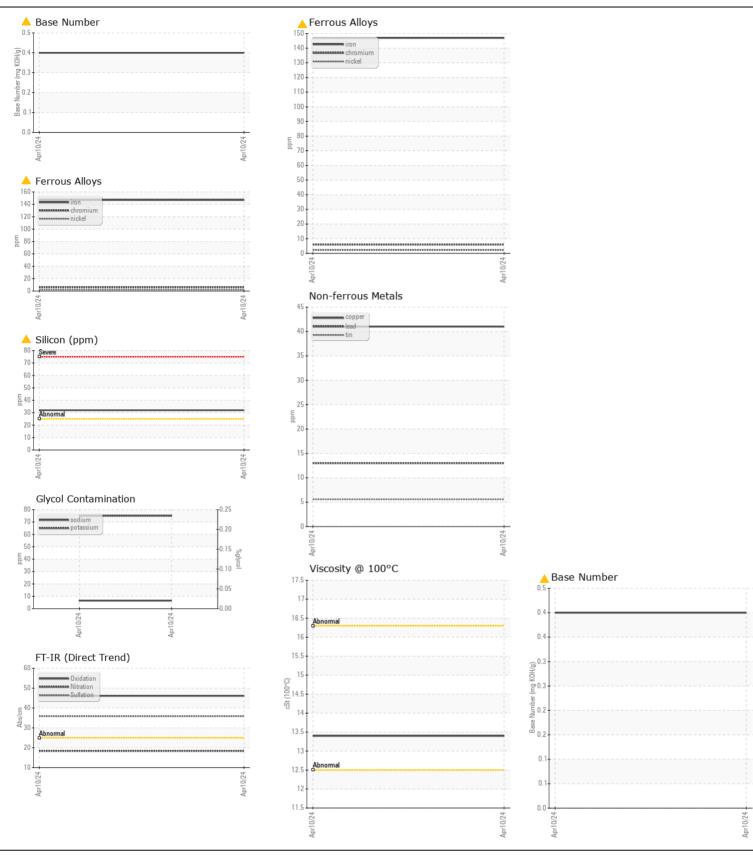
WEAR CONTAMINATION FLUID CONDITION

ABNORMAL ABNORMAL

Machine Id

337258

Component Diesel Engine							
MOBIL 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0904396		
We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.	Sample Date		Client Info		10 Apr 2024		
	Machine Age	mls	Client Info		62050		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	147		
	Chromium	ppm	ASTM D5185m	>20	6		
Cylinder, crank, or cam shaft wear is indicated.	Nickel	ppm	ASTM D5185m	>4	2		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	<1		
	Aluminum	ppm	ASTM D5185m	>20	24		
	Lead	ppm	ASTM D5185m	>40	13		
	Copper	ppm	ASTM D5185m	>330	41		
	Tin	ppm	ASTM D5185m	>15	6		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	▲ 32		
Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.	Potassium	ppm	ASTM D5185m		75		
	Fuel	1-1-		>5	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	18.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	35.8		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	\118	6		
I LOID CONDITION	Boron	ppm	ASTM D5185m	7110	35		
The BN level is low. The oil is no longer serviceable.	Barium	ppm	ASTM D5185m		5		
	Molybdenum	ppm	ASTM D5185m		63		
	Manganese	ppm	ASTM D5185m		7		
	Magnesium	ppm	ASTM D5185m		431		
	Calcium	ppm	ASTM D5185m		1863		
	Phosphorus	ppm	ASTM D5185m		1111		
	Zinc	ppm	ASTM D5185m		1323		
	Sulfur	ppm	ASTM D5185m		3235		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	46.1		
	Base Number (BN)	mg KOH/g	ASTM D2896		△ 0.4		
	Visc @ 100°C	cSt	ASTM D445		13.4		





Certificate L2367

Laboratory Sample No.

Lab Number : 06152571 Unique Number: 10982649 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0904396 Received : 17 Apr 2024 **Tested**

: 18 Apr 2024 : 22 Apr 2024 - Don Baldridge Diagnosed

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)

F: x:

T: (336)767-9642