WEAR CONTAMINATION FLUID CONDITION

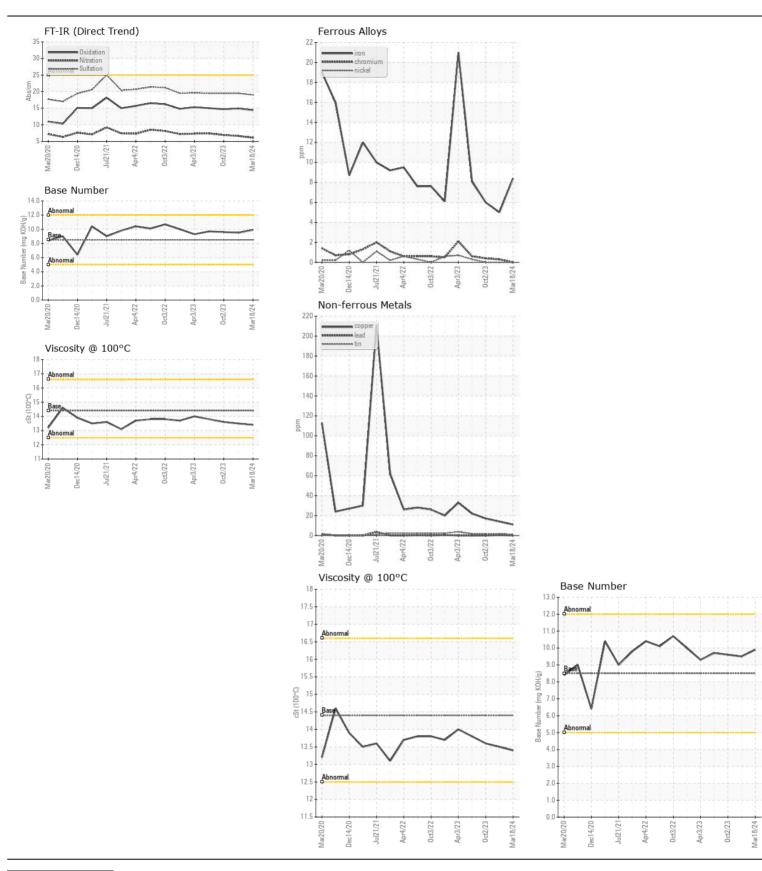
NORMAL NORMAL NORMAL

Machine Id

**16687** 

## Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
December at the most comice interval to monitor. Places are sife the	Sample Number		Client Info		WC0912579	WC0874139	WC0861136
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 Date		Client Info		18 Mar 2024	28 Nov 2023	02 Oct 2020
	Machine Age	mls	Client Info		194994	181534	176275
	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	Iron	ppm	ASTM D5185m	>100	8	5	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	<1	<1
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	4
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	11	14	17
	Tin	ppm	ASTM D5185m	>15	1	2	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	>25	3	4	4
SOUTAMINATION	Potassium	ppm	ASTM D5185m		3	1	2
There is no indication of any contamination in the oil.	Fuel	le le · · ·	WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	6.1	6.6	6.9
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.5	19.5
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	3	0	0
	Boron	ppm	ASTM D5185m		1	2	0
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		59	60	59
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	958	1031	995
	Calcium	ppm	ASTM D5185m		1052	1102	1073
	Phosphorus	ppm	ASTM D5185m		1064	1092	1053
	Zinc	ppm	ASTM D5185m		1238	1363	1316
	Sulfur	ppm	ASTM D5185m		3731	3392	3218
	Oxidation	Abs/.1mm	*ASTM D7414		14.4	14.9	14.7
	Base Number (BN)				9.9	9.5	9.6
	Visc @ 100°C	cSt	ASTM D445		13.4	13.5	13.6







Certificate L2367

Laboratory Sample No.

Lab Number : 06153674 Unique Number: 10983752 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : WC0912579

: 18 Apr 2024 **Tested** : 19 Apr 2024 Diagnosed : 19 Apr 2024 - Wes Davis

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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