WEAR CONTAMINATION FLUID CONDITION

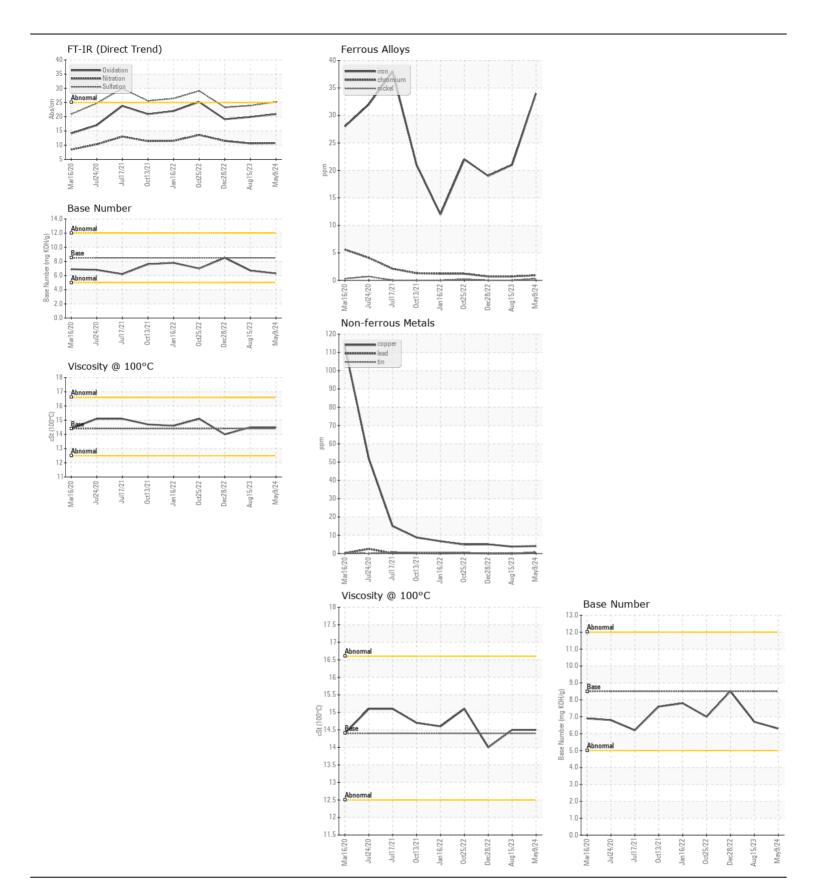
NORMAL NORMAL NORMAL

Machine Id

15082

## Component 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	OOW	Client Info	LIIIIU/ADII	WC0929009	WC0820891	WC0742126
	Sample Date		Client Info		09 May 2024	15 Aug 2023	28 Dec 2022
	Machine Age	mls	Client Info		641467	569902	483306
	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	34	21	19
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		15	8	8
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		4	4	5
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	9	5	5
	Potassium	ppm	ASTM D5185m	>20	2	1	2
There is no indication of any contamination in the oil.	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.9	0.7	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	10.6	11.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	23.9	23.3
	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	>158	2	2	0
The DN years in indicates that there is a witch to all a limit and a single that	Boron	ppm	ASTM D5185m		33	0	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	10	0	0	1
	Molybdenum	ppm	ASTM D5185m	100	75	66	66
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	925	1038	971
	Calcium	ppm	ASTM D5185m		1271	1231	1195
	Phosphorus	ppm	ASTM D5185m	1150	1108	1054	1051
	Zinc	ppm	ASTM D5185m		1429	1355	1292
	Sulfur	ppm	ASTM D5185m	4250	3451	3411	2833
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.9	19.9	19.1
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.3	6.7	8.5
	Visc @ 100°C	cSt	ASTM D445	14.4	14.5	14.5	14.0







Certificate L2367

Laboratory Sample No.

: WC0929009 Lab Number : 06190072 Unique Number : 11046824 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** 

: 28 May 2024 Diagnosed : 28 May 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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