

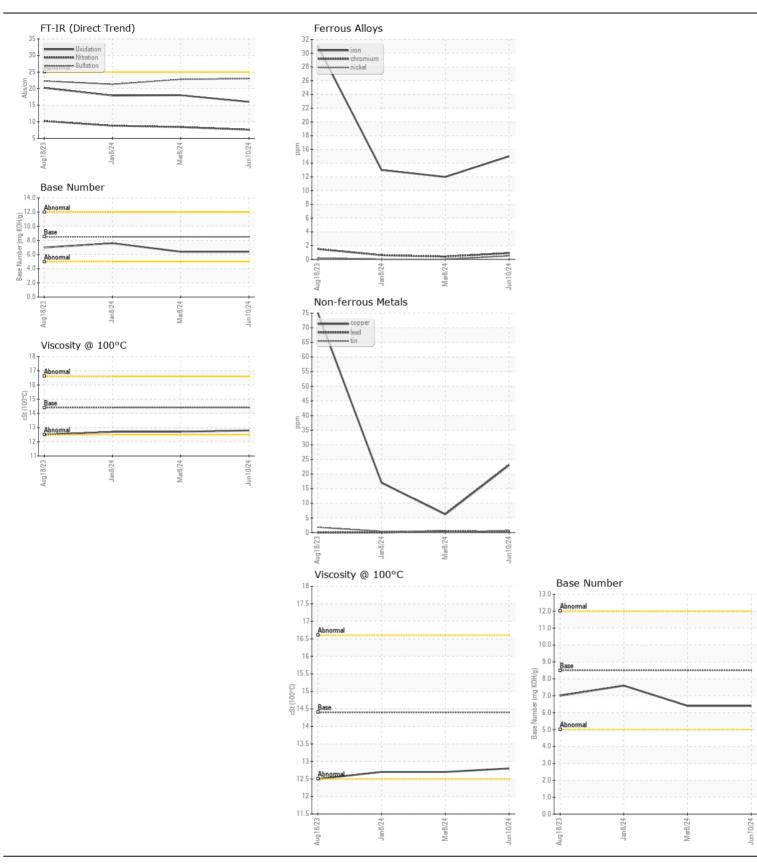
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

Machine Id 19005

Component
Diesel Engine
Fluid

DIESEL ENGINE OIL SAE 40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.  Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0883191	WC0883280	WC0883271
	Sample Date		Client Info		10 Jun 2024	08 Mar 2024	08 Jan 2024
	Machine Age	mls	Client Info		183844	146780	122875
	Oil Age	mls	Client Info		25000	25000	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	Changed
	Filter Changed		Client Info		Changed	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	15	12	13
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>4	<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	<1
	Aluminum	ppm	ASTM D5185m	>20	5	3	5
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	23	6	17
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	4	5
	Potassium	ppm	ASTM D5185m	>20	8	3	6
There is no indication of any contamination in the oil.	Fuel		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	0.7	0.6	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	7.6	8.4	8.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.0	22.8	21.3
	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	>216	<1	1	1
	Boron	ppm	ASTM D5185m	250	247	153	21
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	<1	0	0
	Molybdenum	ppm	ASTM D5185m	100	91	73	65
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	450	420	516	870
	Calcium	ppm	ASTM D5185m		1391	1385	1170
	Phosphorus	ppm	ASTM D5185m		1115	879	1079
	Zinc	ppm	ASTM D5185m		1274	1247	1268
	Sulfur	ppm	ASTM D5185m		3224	3275	2744
	Oxidation	Abs/.1mm	*ASTM D7414		16.0	18.0	17.9
	Base Number (BN)				6.4	6.4	7.6
	Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.7	12.7







Certificate L2367

Laboratory Sample No.

Lab Number : 06212982 Unique Number : 11085846

: WC0883191

Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jun 2024 **Tested** : 19 Jun 2024

Diagnosed : 19 Jun 2024 - Wes Davis

SALEM NATIONALEASE CORPORATION

198 PARK PLAZA DRIVE WINSTON SALEM, NC

US 27105 Contact: Audrey Hopkins

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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: