

## Machine Id **49306** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

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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		WC0925915	WC0790505	WC0790491
	Sample Date		Client Info		20 Apr 2024	18 Mar 2023	06 Mar 2023
	Machine Age	mls	Client Info		234458	178138	23497
	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	7	13	16
	Chromium	ppm	ASTM D5185m	>20	0	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	6	9
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	4	9	7
	Tin	ppm	ASTM D5185m	>15	0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		3	4	16
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		2	4	8
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot % Nitration	%	*ASTM D7844 *ASTM D7624		0.3 7.1	0.5	0.6
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624	>20	22.1	8.8 20.8	20.5
	Silt		*Visual	NONE	NONE	NONE	NONE
	Debris	scalar 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		*Visual	>0.2	NEG	NEG	NEG
	Codium			. 150	.1	0	
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		<1 292	0	1
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		282 0	0	0
	Molybdenum	ppm	ASTM D5185m		80	63	66
	Manganese	ppm ppm	ASTM D5185m	100	0	<1	1
	Magnesium	ppm	ASTM D5185m	450	509	1014	1040
	Calcium		ASTM D5185m		1395	1168	1283
	Phosphorus	ppm ppm	ASTM D5185m		1074	1078	1114
	Zinc		ASTM D5185m		1074	1341	1417
		ppm		1000	1331	1341	141/

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

Abs/.1mm \*ASTM D7414 >25

ASTM D445 14.4

Base Number (BN) mg KOH/g ASTM D2896 8.5

2856

16.6

8.6

13.7

3694

7.1

16.2

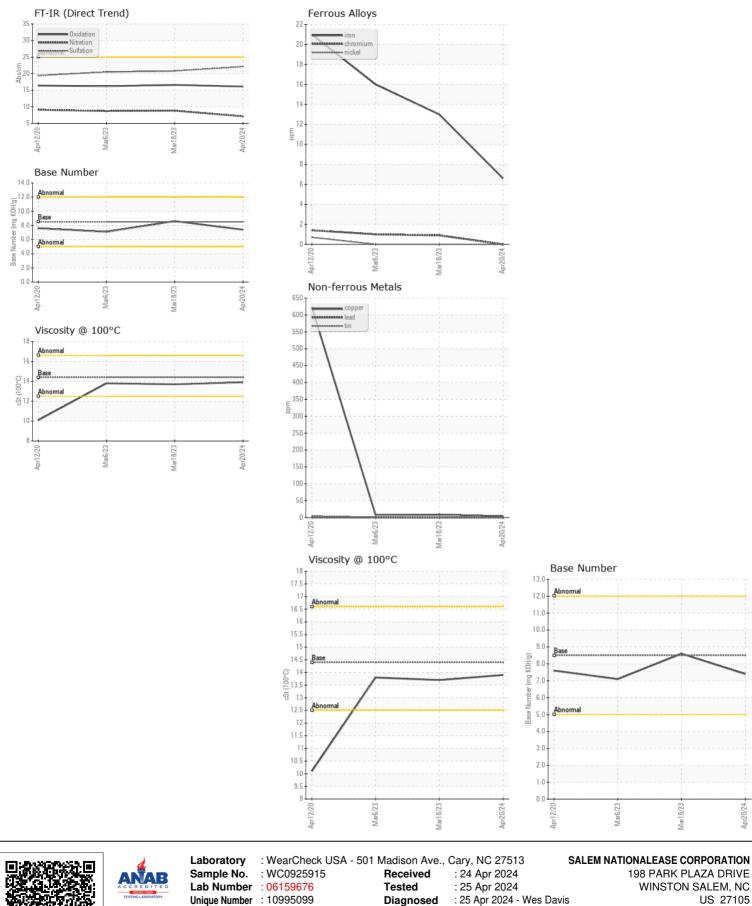
13.8

3951

16.1

7.4

13.9



Certificate L2367

Test Package : FLEET **Contact: Audrey Hopkins** To discuss this sample report, contact Customer Service at 1-800-237-1369. Audrey.Hopkins@salemcorp.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)767-9642 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2

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