

Machine Id 37293 omponen **Diesel Engine** DIESEL ENGINE OIL SAE 5W40 (--- 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		Client Info		WC0915937	WC0882323	WC0838121
	Sample Date		Client Info		16 Apr 2024	24 Jan 2024	08 Nov 2023
	Machine Age	mls	Client Info		0	120121	114978
	Oil Age	mls	Client Info		0	25000	0
	Filter Age	mls	Client Info		0	25000	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	15	10	37
	Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	5	4	5
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	2	2	39
	Tin	ppm	ASTM D5185m	>15	0	<1	<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	5	5	6
CONTAMINATION	Potassium	ppm	ASTM D5185m		2	3	10
There is no indication of any contamination in the oil.	Fuel	ррп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.4	0.9
	Nitration	Abs/cm	*ASTM D7624		9.0	8.5	11.3
	Sulfation	Abs/.1mm	*ASTM D7415		24.0	23.5	24.9
	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		ASTM D5185m	×11	0	<1	2
FLUID CONDITION	Boron	ppm	ASTM D5185m		275	254	14
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 ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		134	100	71
	Manganese	ppm	ASTM D5185m	100	<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	687	699	893
	Calcium	ppm	ASTM D5185m		1598	1442	1077
	Phosphorus	ppm	ASTM D5185m		742	715	897
	Zinc	ppm	ASTM D5185m		889	805	1265
		PPIII		1000	000	000	1200

Sulfur

Oxidation

Visc @ 100°C cSt

ppm ASTM D5185m 4250

ASTM D445 14.4

Abs/.1mm *ASTM D7414 >25

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

2260

17.9

8.8

13.0

2623

21.4

6.0

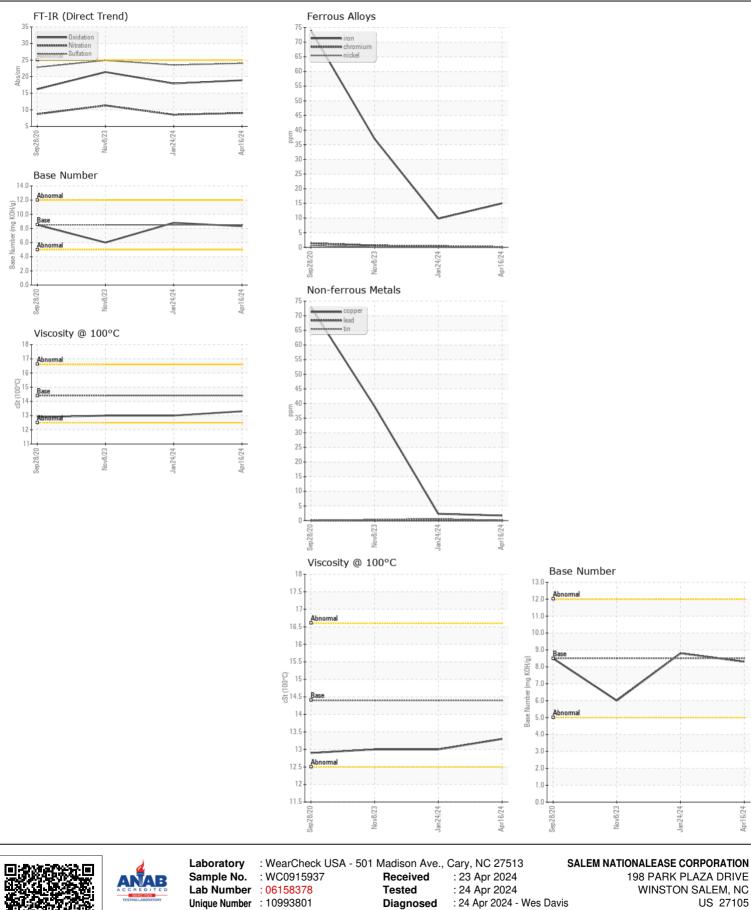
13.0

2776

18.9

8.3

13.3



Test Package : FLEET Certificate L2367

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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