



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ABNORMAL</b>
FLUID CONDITION	<b>ABNORMAL</b>

Machine Id  
**SUPRA 12555R**  
 Component  
**Diesel Engine**  
 Fluid  
**DIESEL ENGINE OIL SAE 15W40 (--- QTS)**

## RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0913839</b>	WC0388896	WCMFB97012
Sample Date		Client Info		<b>15 Mar 2024</b>	20 Sep 2019	08 May 2018
Machine Age	hrs	Client Info		<b>10119</b>	4906	214
Oil Age	hrs	Client Info		<b>2671</b>	2000	0
Filter Age	hrs	Client Info		<b>2671</b>	2000	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>120	<b>32</b>	15	10
Chromium	ppm	ASTM D5185m	>10	<b>3</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>2</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	3	3
Lead	ppm	ASTM D5185m	>40	<b>1</b>	<1	<1
Copper	ppm	ASTM D5185m	>300	<b>3</b>	1	4
Tin	ppm	ASTM D5185m	>10	<b>2</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

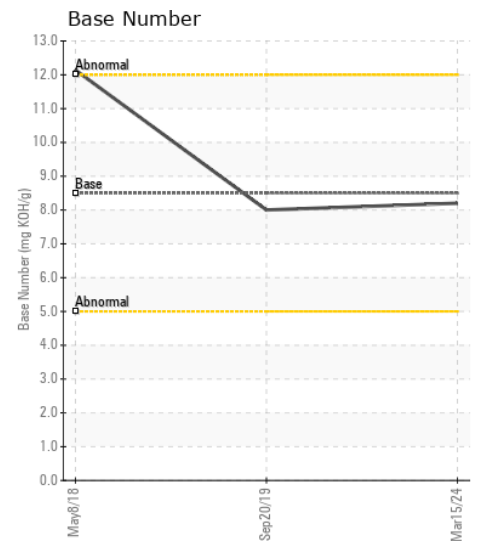
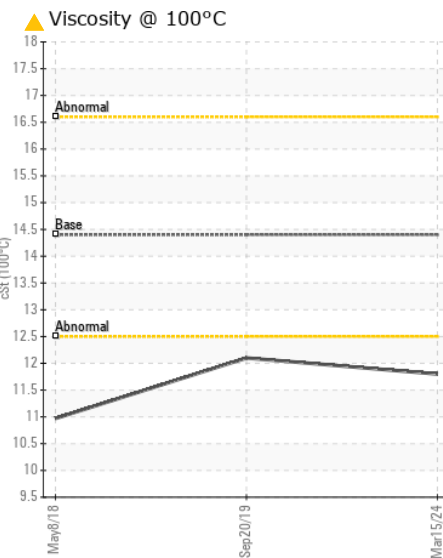
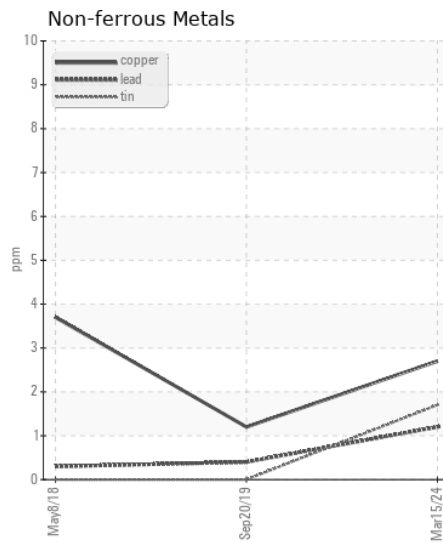
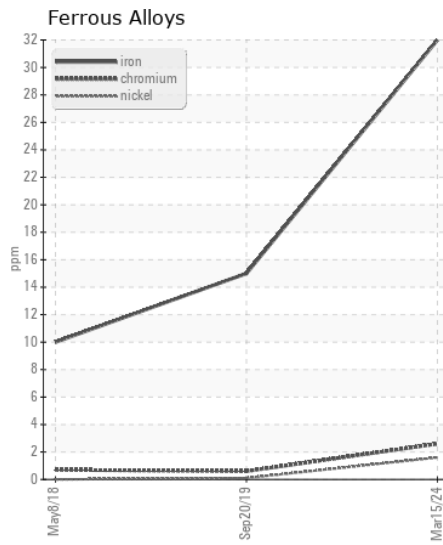
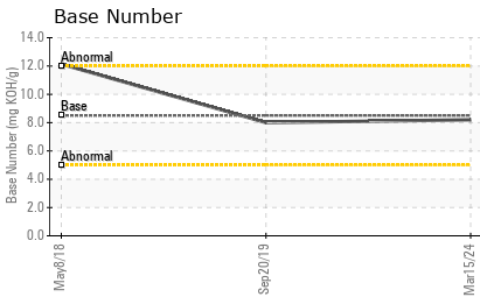
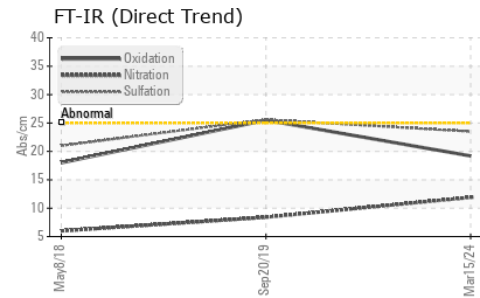
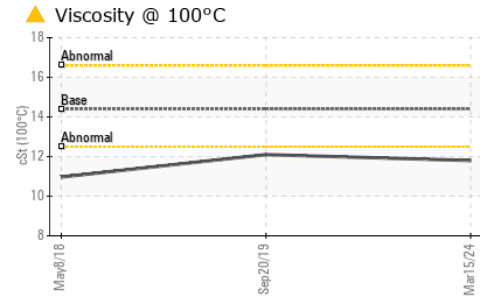
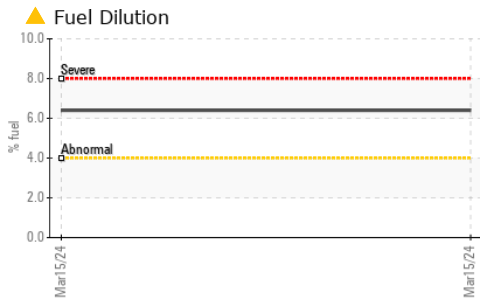
There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	4	12
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	1
Fuel	%	ASTM D3524	>4.0	<b>▲ 6.4</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844		<b>1.9</b>	1.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.9</b>	8.4	6.
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.5</b>	25.6	21.
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>158	<b>3</b>	2	2
Boron	ppm	ASTM D5185m	250	<b>4</b>	73	52
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	100	<b>62</b>	54	42
Manganese	ppm	ASTM D5185m		<b>1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	450	<b>913</b>	370	467
Calcium	ppm	ASTM D5185m	3000	<b>1092</b>	1777	1657
Phosphorus	ppm	ASTM D5185m	1150	<b>1099</b>	930	719
Zinc	ppm	ASTM D5185m	1350	<b>1217</b>	1123	826
Sulfur	ppm	ASTM D5185m	4250	<b>3502</b>	2654	1613
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.2</b>	25.5	18.
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>8.2</b>	8	12.14
Visc @ 100°C	cSt	ASTM D445	14.4	<b>▲ 11.8</b>	12.1	10.97



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : WC0913839

**Lab Number** : 06152548

**Unique Number** : 10982626

**Test Package** : FLEET ( Additional Tests: FuelDilution, PercentFuel )

**Received** : 17 Apr 2024

**Tested** : 22 Apr 2024

**Diagnosed** : 22 Apr 2024 - Wes Davis

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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