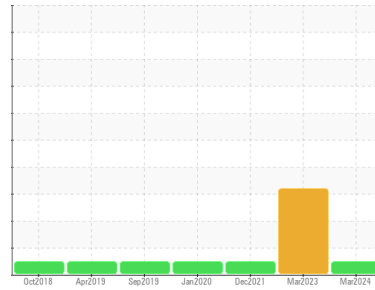




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**FSP89173 (S/N 1FVHCYBS2CHBK9053)**  
 Component  
**Diesel Engine**  
 Fluid  
 **DIESEL ENGINE OIL SAE 15W40 (18 QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0903200</b>	WC0787539	WC0640621
Sample Date	Client Info			<b>19 Mar 2024</b>	29 Mar 2023	23 Dec 2021
Machine Age	mls	Client Info		<b>287192</b>	268398	252734
Oil Age	mls	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>80	<b>38</b>	▲ 146	56
Chromium	ppm	ASTM D5185m	>5	<b>2</b>	▲ 7	<1
Nickel	ppm	ASTM D5185m	>2	<b>2</b>	▲ 5	<1
Titanium	ppm	ASTM D5185m		<b>3</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>4</b>	15	11
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	7	<1
Copper	ppm	ASTM D5185m	>150	<b>&lt;1</b>	6	3
Tin	ppm	ASTM D5185m	>5	<b>1</b>	<1	<1
Antimony	ppm	ASTM D5185m		<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	<b>164</b>	4	57
Barium	ppm	ASTM D5185m	10	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	100	<b>65</b>	61	28
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	450	<b>610</b>	879	162
Calcium	ppm	ASTM D5185m	3000	<b>1512</b>	1358	2197
Phosphorus	ppm	ASTM D5185m	1150	<b>1027</b>	977	1003
Zinc	ppm	ASTM D5185m	1350	<b>1231</b>	1294	1057
Sulfur	ppm	ASTM D5185m	4250	<b>4112</b>	3407	3387

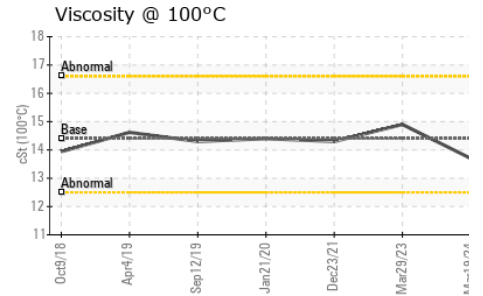
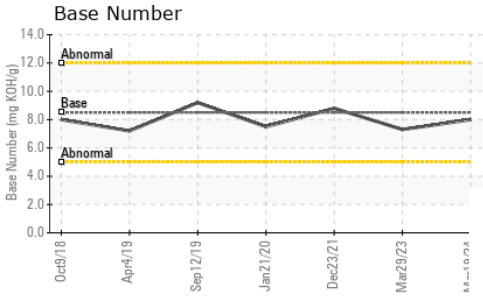
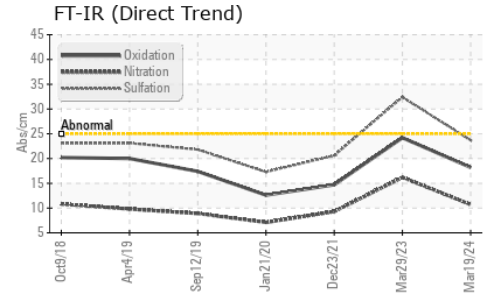
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	<b>5</b>	17	7
Sodium	ppm	ASTM D5185m	>158	<b>7</b>	10	4
Potassium	ppm	ASTM D5185m	>20	<b>7</b>	8	5

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.6</b>	▲ 3.2	0.6
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.7</b>	16.2	9.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>23.7</b>	32.4	20.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.2</b>	24.2	14.7
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	<b>8.0</b>	7.3	8.8



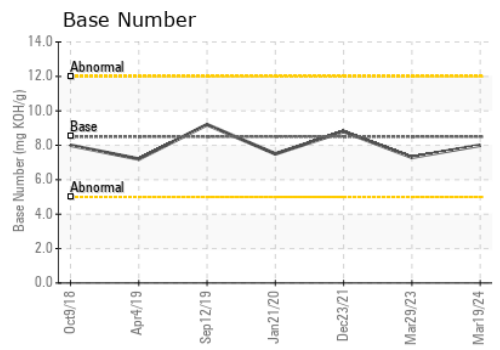
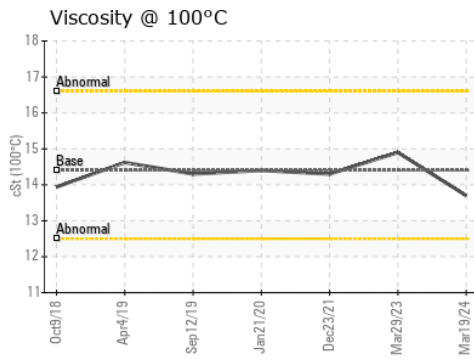
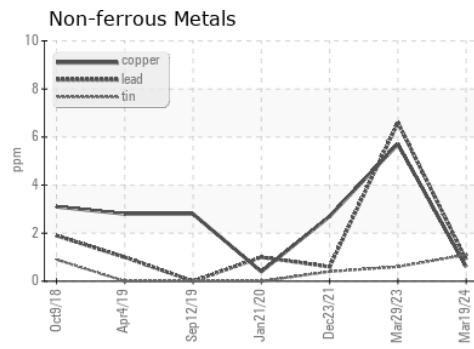
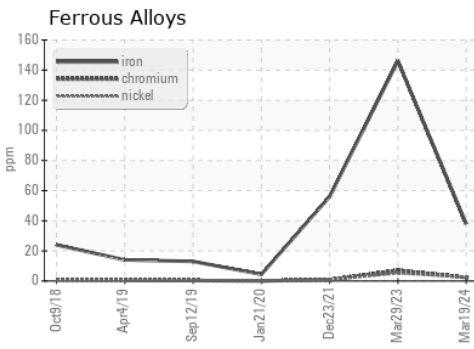
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	13.7	14.9

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0903200      **Received** : 02 Apr 2024  
**Lab Number** : 06136839      **Tested** : 03 Apr 2024  
**Unique Number** : 10956304      **Diagnosed** : 05 Apr 2024 - Don Baldrige  
**Test Package** : FLEET

**FRESHPOINT**  
 8801 EXCHANGE DRIVE  
 ORLANDO, FL  
 US 32809  
 Contact: CRAIG EVANS  
 evans\_craig@sbcglobal.net

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)