



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

Machine Id  
**INTERNATIONAL 8017080**  
Component  
**Diesel Engine**  
Fluid  
**VALVOLINE 15W40 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0028433</b>	IL05601334	IL05447408
Sample Date		Client Info		<b>09 Jan 2024</b>	20 Jul 2022	13 Jan 2022
Machine Age	mls	Client Info		<b>292686</b>	214702	186576
Oil Age	mls	Client Info		<b>0</b>	0	4717
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>34</b>	25	46
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	2	3
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m	>20	<b>9</b>	7	9
Lead	ppm	ASTM D5185m	>40	<b>17</b>	8	13
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	<1	2
Tin	ppm	ASTM D5185m	>15	<b>1</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

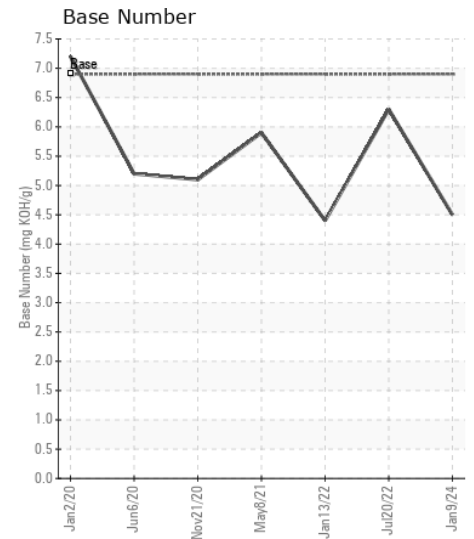
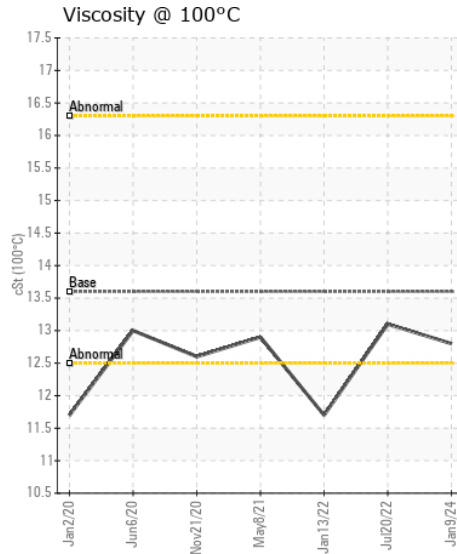
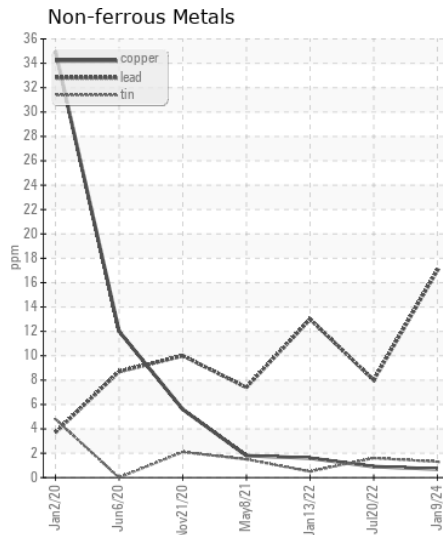
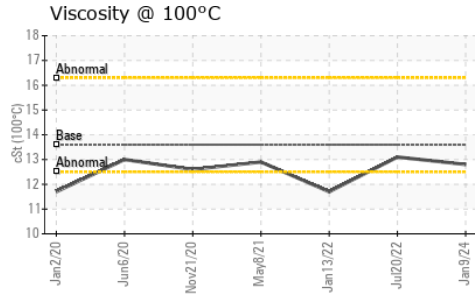
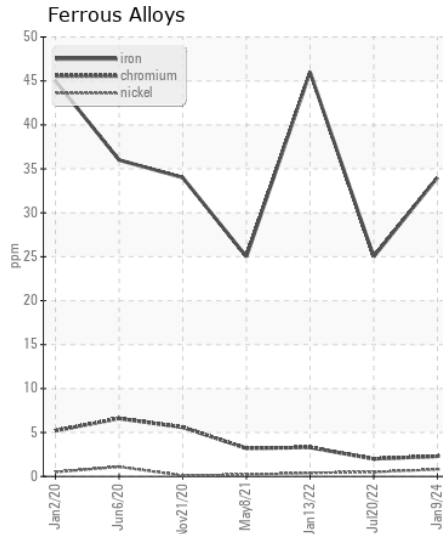
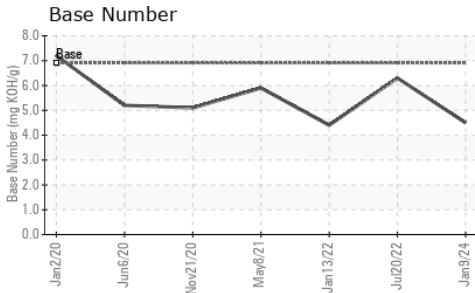
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>7</b>	6	6
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	15	21
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	0.5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.5</b>	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	<b>11.2</b>	13.4	11.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>26.0</b>	26.7	26.7
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	>0.2	<b>NEG</b>	NEG	NEG

### 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.

Sodium	ppm	ASTM D5185m		<b>3</b>	2	2
Boron	ppm	ASTM D5185m	39	<b>32</b>	20	4
Barium	ppm	ASTM D5185m	1	<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m	49	<b>73</b>	60	81
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	616	<b>647</b>	731	547
Calcium	ppm	ASTM D5185m	1554	<b>1238</b>	1316	1339
Phosphorus	ppm	ASTM D5185m	899	<b>830</b>	633	690
Zinc	ppm	ASTM D5185m	1069	<b>1086</b>	859	934
Sulfur	ppm	ASTM D5185m	2624	<b>2945</b>	2759	2439
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>24.2</b>	24.5	23
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	<b>4.5</b>	6.3	4.4
Visc @ 100°C	cSt	ASTM D445	13.6	<b>12.8</b>	13.1	11.7



Certificate L2367

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

**Sample No.** : IL0028433

**Lab Number** : 06104091

**Unique Number** : 10902321

**Test Package** : FLEET

**Received** : 29 Feb 2024

**Tested** : 29 Feb 2024

**Diagnosed** : 29 Feb 2024 - Wes Davis

**TAMPA IDEALEASE**

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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)