



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

Machine Id  
**INTERNATIONAL 6726902**  
Component  
**Diesel Engine**  
Fluid  
**VALVOLINE 15W40 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0035113</b>	IL0034304	IL05743911
Sample Date		Client Info		<b>29 Dec 2023</b>	02 Oct 2023	12 Jan 2023
Machine Age	mls	Client Info		<b>167605</b>	161286	146835
Oil Age	mls	Client Info		<b>0</b>	0	9271
Filter Age	mls	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	ABNORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>130	<b>7</b>	24	20
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	>2	<b>1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>4</b>	5	5
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Copper	ppm	ASTM D5185m	>125	<b>&lt;1</b>	2	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

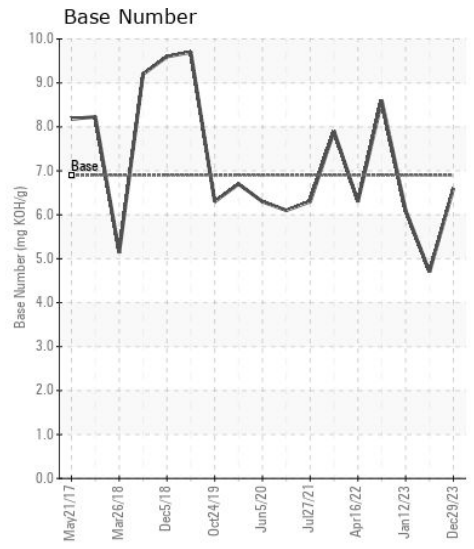
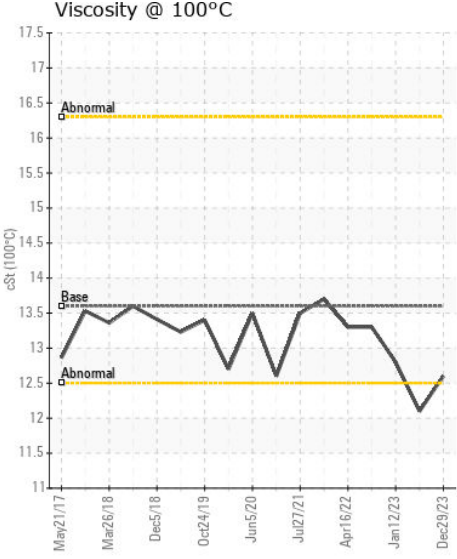
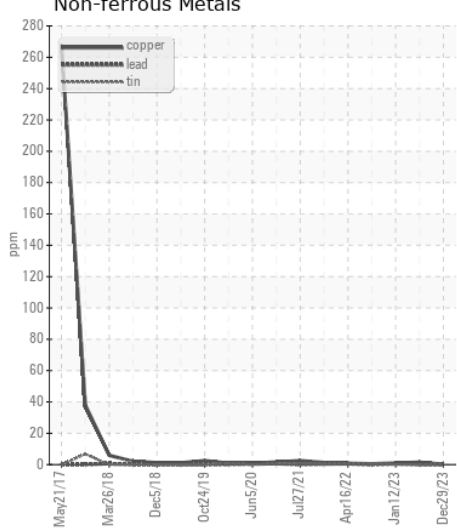
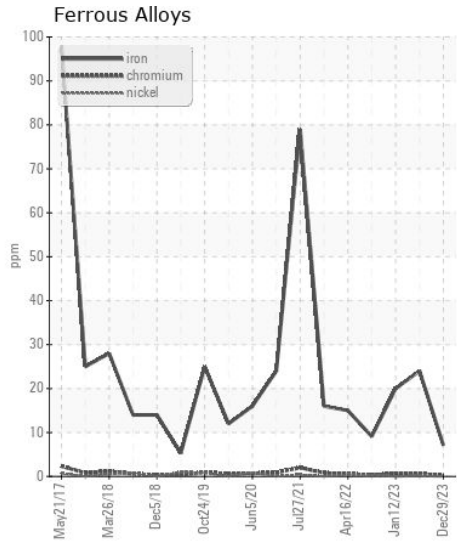
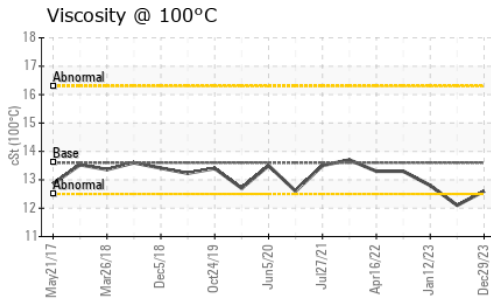
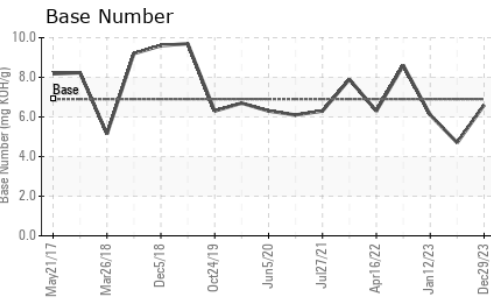
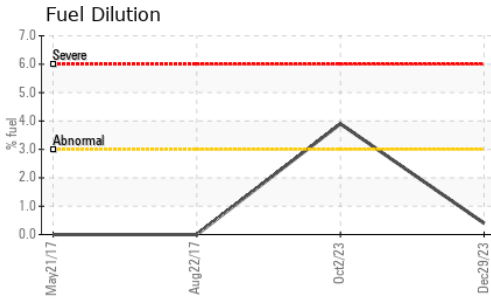
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	8	7
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	5	2
Fuel	%	ASTM D3524	>3.0	<b>0.4</b>	▲ 3.9	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>6	<b>0.4</b>	0.8	0.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.8</b>	10.9	10.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.6</b>	25.4	23.8
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>2</b>	0	2
Boron	ppm	ASTM D5185m	39	<b>77</b>	102	88
Barium	ppm	ASTM D5185m	1	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	49	<b>65</b>	84	77
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m	616	<b>657</b>	422	479
Calcium	ppm	ASTM D5185m	1554	<b>1188</b>	1342	1354
Phosphorus	ppm	ASTM D5185m	899	<b>827</b>	904	887
Zinc	ppm	ASTM D5185m	1069	<b>987</b>	1107	1127
Sulfur	ppm	ASTM D5185m	2624	<b>2553</b>	3066	3232
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.4</b>	22.8	19.9
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	<b>6.6</b>	4.7	6.1
Visc @ 100°C	cSt	ASTM D445	13.6	<b>12.6</b>	▲ 12.1	12.8



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0035113 **Received** : 10 Jan 2024  
**Lab Number** : 06056396 **Diagnosed** : 12 Jan 2024  
**Unique Number** : 10822345 **Diagnostician** : Wes Davis  
**Test Package** : FLEET ( Additional Tests: PercentFuel )

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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