



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

Machine Id  
**INTERNATIONAL 8026781**  
Component  
**Diesel Engine**  
Fluid  
**VALVOLINE 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0028425</b>	IL05490798	IL05189875
Sample Date		Client Info		<b>21 Feb 2024</b>	03 Mar 2022	12 Feb 2021
Machine Age	mls	Client Info		<b>132287</b>	91584	64127
Oil Age	mls	Client Info		<b>0</b>	0	0
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>	ABNORMAL	ATTENTION

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>24</b>	47	18
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	4	3
Nickel	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	2
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>20	<b>5</b>	5	4
Lead	ppm	ASTM D5185m	>40	<b>4</b>	6	<1
Copper	ppm	ASTM D5185m	>330	<b>2</b>	5	5
Tin	ppm	ASTM D5185m	>15	<b>1</b>	2	0
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

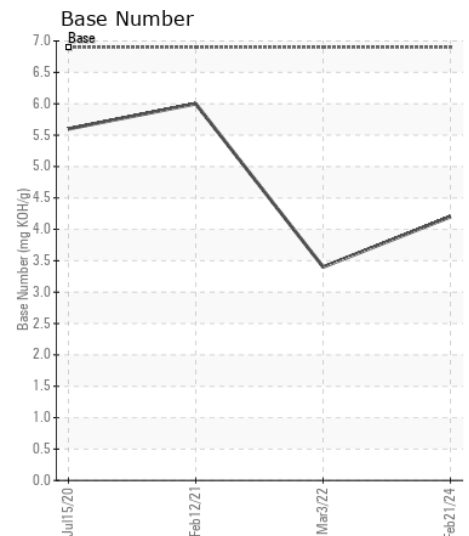
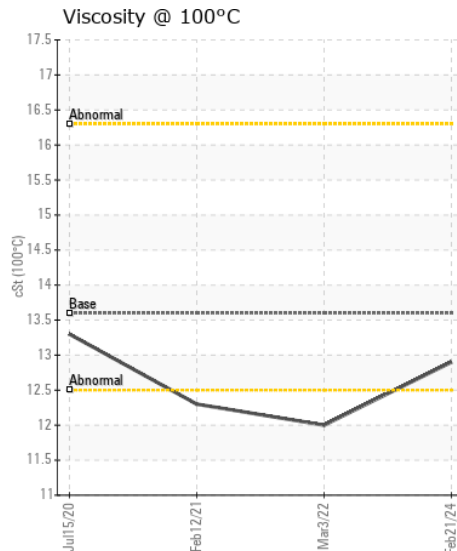
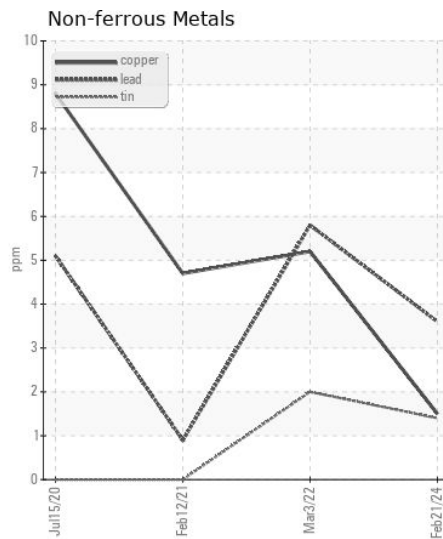
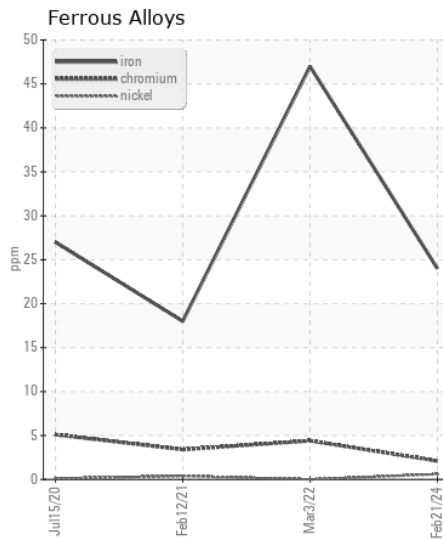
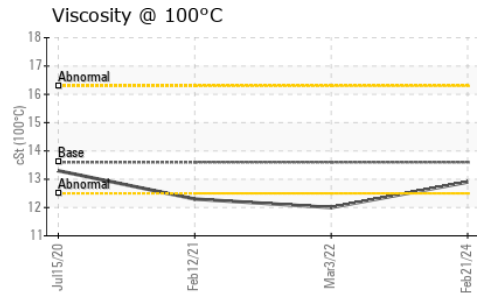
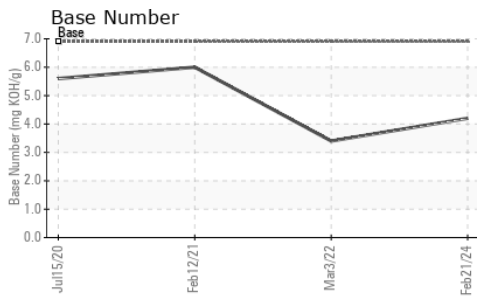
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>6</b>	7	7
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	8	21
Fuel		WC Method	>5	<b>&lt;1.0</b>	2.7	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>0.3</b>	0.5	0.3
Nitration	Abs/cm	*ASTM D7624	>20	<b>12.0</b>	15.2	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>25.1</b>	30.4	23.6
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>	0	4
Boron	ppm	ASTM D5185m	39	<b>38</b>	18	22
Barium	ppm	ASTM D5185m	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	49	<b>68</b>	59	55
Manganese	ppm	ASTM D5185m	1	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	616	<b>677</b>	548	487
Calcium	ppm	ASTM D5185m	1554	<b>1242</b>	1583	1989
Phosphorus	ppm	ASTM D5185m	899	<b>817</b>	764	918
Zinc	ppm	ASTM D5185m	1069	<b>1059</b>	916	1099
Sulfur	ppm	ASTM D5185m	2624	<b>2740</b>	2244	2686
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>25.4</b>	29.5	18
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	<b>4.2</b>	▲ 3.4	6
Visc @ 100°C	cSt	ASTM D445	13.6	<b>12.9</b>	● 12.0	● 12.3



Certificate L2367

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

Sample No. : IL0028425

Lab Number : 06104082

Unique Number : 10902312

Test Package : FLEET

Received : 29 Feb 2024

Tested : 29 Feb 2024

Diagnosed : 02 Mar 2024 - Don Baldrige

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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)