



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

Machine Id  
**INTERNATIONAL 8927099**  
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>IL0035087</b>	IL0034302	IL05934630
Sample Date		Client Info		<b>11 Jan 2024</b>	11 Oct 2023	12 Jul 2023
Machine Age	mls	Client Info		<b>281681</b>	76583	269820
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>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>30</b>	22	44
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	1
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m	>3	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>2</b>	8	4
Lead	ppm	ASTM D5185m	>40	<b>&lt;1</b>	2	7
Copper	ppm	ASTM D5185m	>330	<b>3</b>	7	2
Tin	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	<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

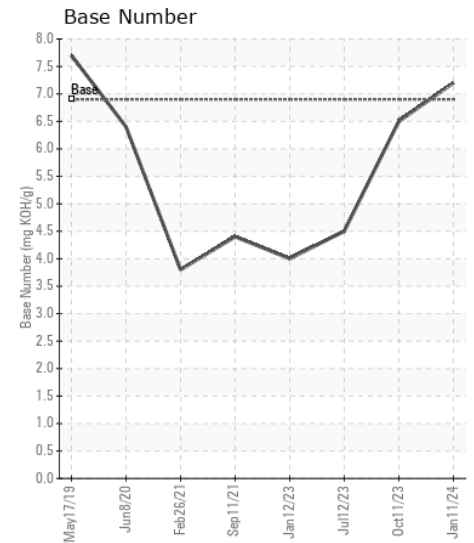
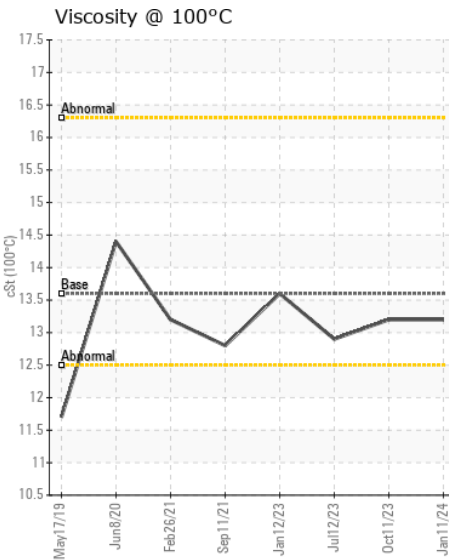
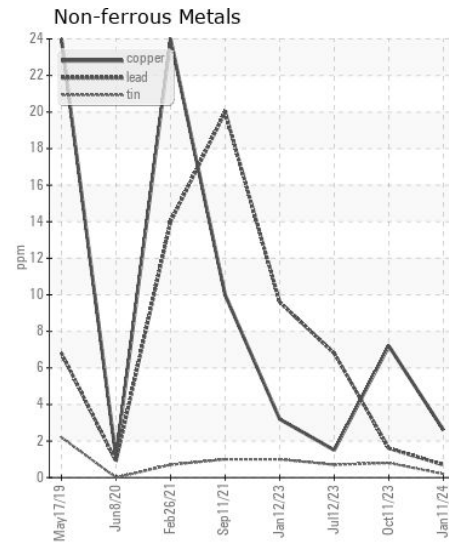
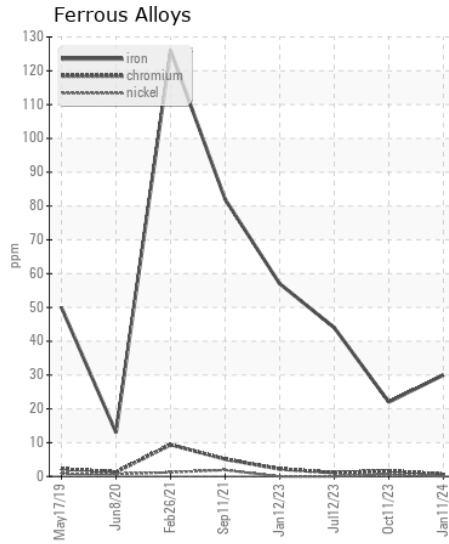
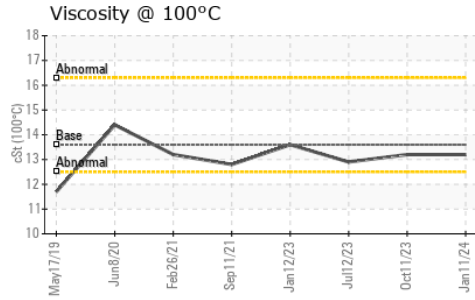
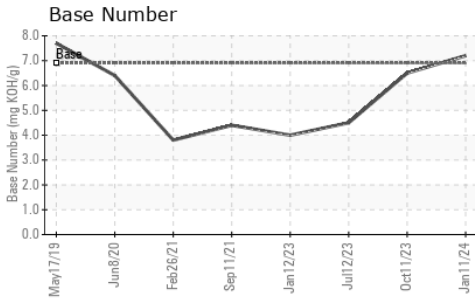
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>4</b>	13	6
Potassium	ppm	ASTM D5185m	>20	<b>5</b>	30	3
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
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.3	0.5
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.7</b>	9.9	10.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.8</b>	21.8	25.9
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>0</b>	0	4
Boron	ppm	ASTM D5185m	39	<b>75</b>	36	43
Barium	ppm	ASTM D5185m	1	<b>25</b>	<1	0
Molybdenum	ppm	ASTM D5185m	49	<b>69</b>	64	77
Manganese	ppm	ASTM D5185m	1	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	616	<b>676</b>	656	592
Calcium	ppm	ASTM D5185m	1554	<b>1176</b>	1293	1451
Phosphorus	ppm	ASTM D5185m	899	<b>814</b>	759	918
Zinc	ppm	ASTM D5185m	1069	<b>976</b>	944	1143
Sulfur	ppm	ASTM D5185m	2624	<b>2519</b>	2411	3312
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>18.3</b>	19.3	22.9
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	<b>7.2</b>	6.5	4.5
Visc @ 100°C	cSt	ASTM D445	13.6	<b>13.2</b>	13.2	12.9



Certificate L2367

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

Sample No. : IL0035087

Lab Number : 06084595

Unique Number : 10872040

Test Package : FLEET

Received : 09 Feb 2024

Tested : 12 Feb 2024

Diagnosed : 12 Feb 2024 - Wes Davis

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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)