



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**YRD 3**  
Component  
**Diesel Engine**  
Fluid  
**VALVOLINE 15W40 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>IL0034242</b>	IL0033230	IL05597816
Sample Date		Client Info		<b>02 Dec 2023</b>	04 Oct 2023	01 Jul 2022
Machine Age	hrs	Client Info		<b>16119</b>	0	2743
Oil Age	hrs	Client Info		<b>0</b>	15403	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>20</b>	81	▲ 168
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	7	5
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>1</b>	1	<1
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>20	<b>7</b>	59	▲ 10
Lead	ppm	ASTM D5185m	>40	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>330	<b>&lt;1</b>	6	57
Tin	ppm	ASTM D5185m	>15	<b>0</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

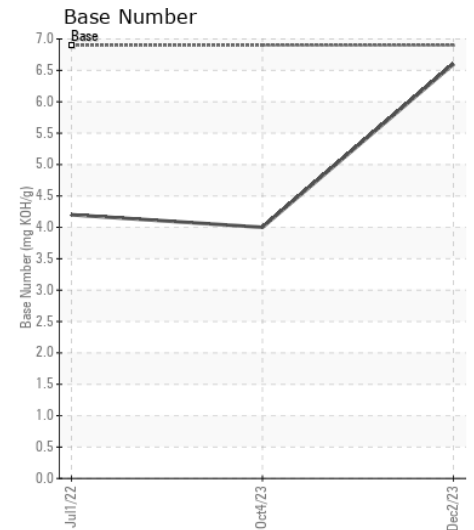
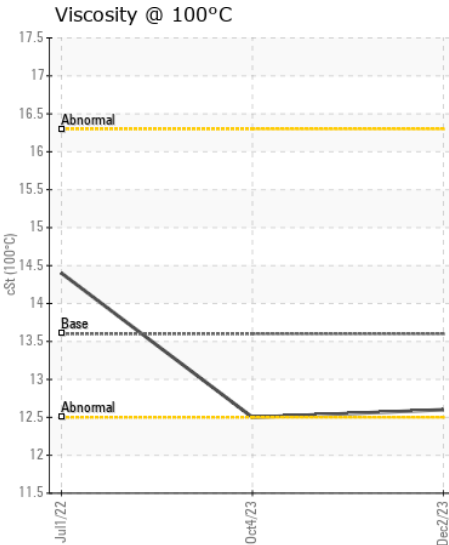
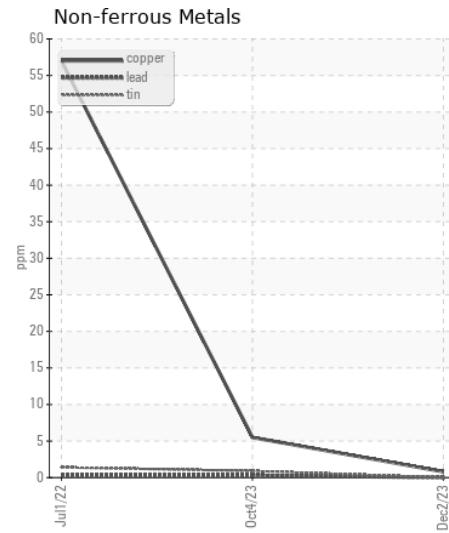
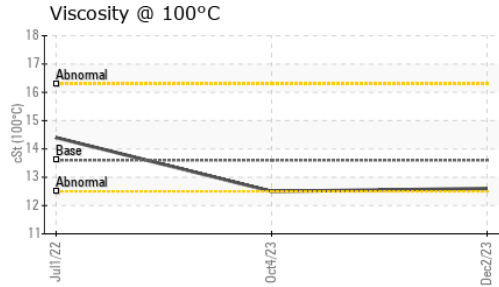
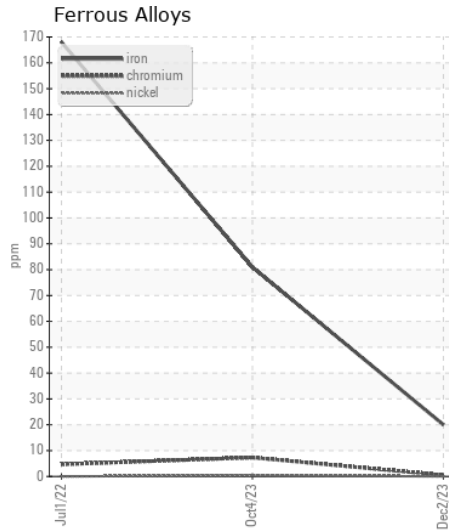
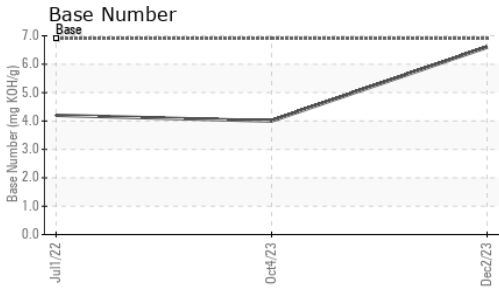
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>5</b>	11	▲ 25
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	86	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>0.5</b>	0.3	1.7
Nitration	Abs/cm	*ASTM D7624	>20	<b>10.2</b>	11.3	21.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.7</b>	22.7	34.0
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>	4	4
Boron	ppm	ASTM D5185m	39	<b>114</b>	21	10
Barium	ppm	ASTM D5185m	1	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	49	<b>67</b>	62	47
Manganese	ppm	ASTM D5185m	1	<b>0</b>	2	6
Magnesium	ppm	ASTM D5185m	616	<b>605</b>	725	829
Calcium	ppm	ASTM D5185m	1554	<b>1239</b>	1292	1060
Phosphorus	ppm	ASTM D5185m	899	<b>756</b>	768	844
Zinc	ppm	ASTM D5185m	1069	<b>939</b>	984	1072
Sulfur	ppm	ASTM D5185m	2624	<b>2711</b>	2435	2584
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	21.8	40.0
Base Number (BN)	mg KOH/g	ASTM D2896	6.9	<b>6.6</b>	4.0	4.2
Visc @ 100°C	cSt	ASTM D445	13.6	<b>12.6</b>	12.5	14.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : IL0034242 **Received** : 10 Jan 2024  
**Lab Number** : 06057289 **Diagnosed** : 11 Jan 2024  
**Unique Number** : 10823238 **Diagnostician** : Wes Davis  
**Test Package** : FLEET

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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