

# WEARNORMALCONTAMINATIONNORMALFLUID CONDITIONNORMAL

#### Machine Id **NEWFLYER 1923** Component **Diesel Engine** Fluid **{not provided} (28 QTS)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

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All component wear rates are normal.

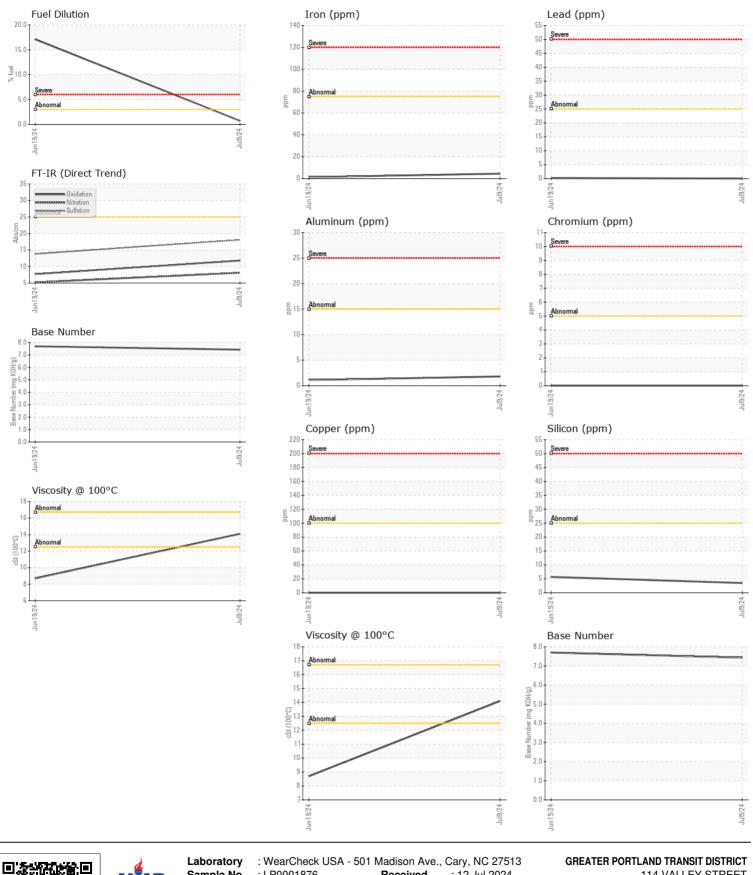
## CONTAMINATION

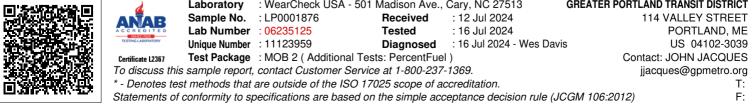
Fuel content negligible. There is no indication of any contamination in the oil.

#### 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LP0001876	LP0001886	
Sample Date		Client Info		09 Jul 2024	19 Jun 2024	
Machine Age	mls	Client Info		231310	228727	
Oil Age	mls	Client Info		231310	228727	
Filter Age	mls	Client Info		0	0	
Oil Changed	-	Client Info		N/A	N/A	
Filter Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	SEVERE	
Iron	ppm	ASTM D5185m	>75	4	1	
Chromium	ppm	ASTM D5185m	>5	0	0	
Nickel	ppm	ASTM D5185m	>4	0	0	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>15	2	1	
Lead	ppm	ASTM D5185m	>25	0	<1	
Copper	ppm	ASTM D5185m	>100	0	0	
Tin	ppm	ASTM D5185m	>4	<1	0	
Vanadium	ppm	ASTM D5185m		0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	4	6	
Potassium	ppm	ASTM D5185m	>20	2	2	
Fuel	%	ASTM D3524	>3.0	0.7	<b>1</b> 7.1	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>6	0.3	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	8.1	5.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	13.8	
Silt	scalar	*Visual	NONE	NONE	A MODER	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
				c	4	
Sodium	ppm	ASTM D5185m		6	<1	
Boron	ppm	ASTM D5185m		10	8	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		14	8	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium Calcium	ppm	ASTM D5185m		26	25	
	ppm	ASTM D5185m		2291	2054	
Phosphorus	ppm	ASTM D5185m		929	788	
Zinc	ppm	ASTM D5185m		1138	907	
Sulfur	ppm	ASTM D5185m	. 05	4339	3698	
Oxidation	Abs/.1mm	*ASTM D7414	>25	11.8	7.7	
Base Number (BN)	mg KOH/g	ASTM D2896		7.43	7.70	
Visc @ 100°C	cSt	ASTM D445		14.1	<b>8</b> .7	





Submitted By: JOHN JACQUES Page 2 of 2