

RECOMMENDATION

WEAR

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

(

Machine Id **NEWFLYER 1818** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 40 (28 QTS)**

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) DIESEL ENGINE OIL SAE 40. Please confirm.

Metal levels are typical for a components first oil change.

There is no indication of any contamination in the oil.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
as not GENERIC)	Sample Number		Client Info		LP0001979		
	Sample Date		Client Info		20 May 2024		
	Machine Age	mls	Client Info		263566		
	Oil Age	mls	Client Info		263566		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
					•		
	Iron	ppm	ASTM D5185m	>75	8		
	Chromium	ppm	ASTM D5185m	>5	<1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	<1 4		
	Aluminum	ppm	ASTM D5185m	>15			
	Lead	ppm	ASTM D5185m	>25	<1 1		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		1		
	Vanadium	ppm	ASTM D5185m	>4	। <1		
	White Metal	ppm scalar		NONE	NONE		
	Yellow Metal		*Visual *Visual	NONE	NONE		
		scalar	visuai	NONE			
	Silicon	ppm	ASTM D5185m	>25	5		
	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>3.0	<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>6	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.3		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
	0			010	•		
ning in the	Sodium	ppm	ASTM D5185m	>216	3		
	Boron	ppm	ASTM D5185m	250	16		
	Barium	ppm	ASTM D5185m	10	0		
	Molybdenum	ppm	ASTM D5185m	100	36		
	Manganese	ppm	ASTM D5185m	450	<1 62		
	Magnesium	ppm	ASTM D5185m	450	63 2227		
	Calcium	ppm	ASTM D5185m	3000	2227		
	Phosphorus	ppm	ASTM D5185m	1150	887		
	Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m	1350	1124		
	Oxidation	ppm Abs/.1mm	*ASTM D5165111	4250	3686 15.8		
	Oxidation	AD2/.111111	ASTIVI D7414	>25	15.0		

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

Visc @ 100°C cSt

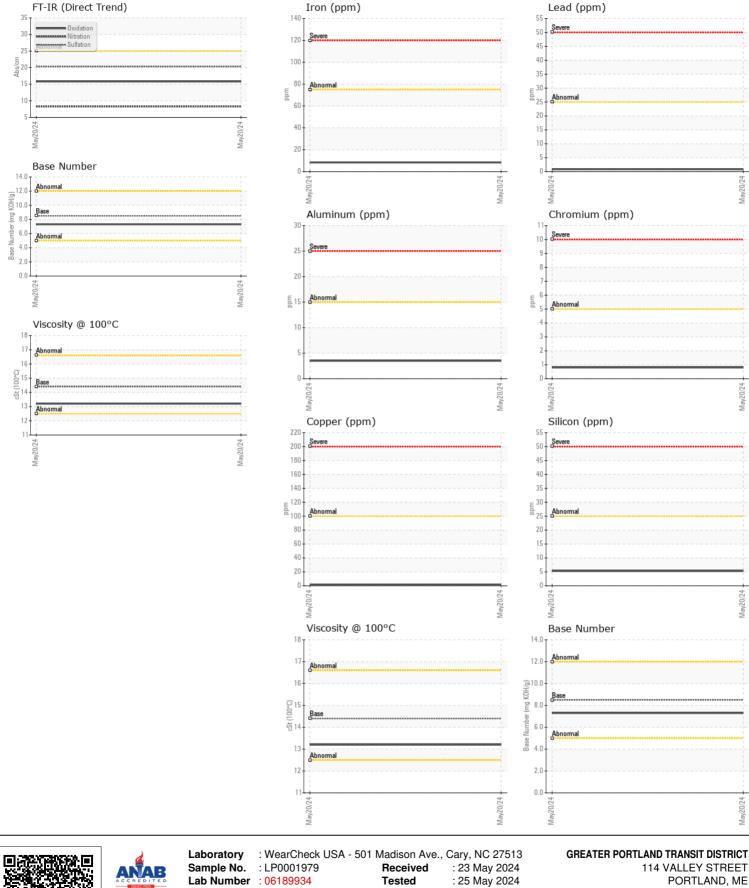
CONTAMINATION

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.

7.3

13.2





Unique Number : 11046686 : 25 May 2024 - Wes Davis US 04102-3039 Diagnosed Test Package : MOB 2 Contact: JOHN JACQUES Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. jjacques@gpmetro.org * - 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)

Submitted By: JOHN JACQUES Page 2 of 2

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