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WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id NEWFLYER 2029 Component Diesel Engine Fluid NOT GIVEN (28 QTS)
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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LP0001873	LP0001978	
	Sample Date		Client Info		08 Jul 2024	21 May 2024	
	Machine Age	mls	Client Info		181410	176623	
	Oil Age	mls	Client Info		181410	176623	
	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	NORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>75	17	62	
	Chromium	ppm	ASTM D5185m		<1	2	
	Nickel	ppm	ASTM D5185m		<1	2	
	Titanium	ppm	ASTM D5185m		<1	<1	
	Silver		ASTM D5185m		<1	1	
	Aluminum	ppm	ASTM D5185m		2	5	
	Lead	ppm	ASTM D5185m		2 <1	<1	
		ppm	ASTM D5185m		3	2	
	Copper Tin	ppm					
		ppm	ASTM D5185m	>4	<1	<1	
	Vanadium	ppm	ASTM D5185m	NONE	<1	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	12	
	Potassium	ppm	ASTM D5185m	>20	3	4	
There is no indication of any contamination in the oil.	Fuel		WC Method	>3.0	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>6	0.3	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	24.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	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	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		9	5	
The RN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		14	10	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		27	32	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		30	41	
	Calcium	ppm	ASTM D5185m		2245	1996	
	Phosphorus	ppm	ASTM D5185m		873	774	
	Zinc	ppm	ASTM D5185m		1088	980	
	Sulfur	ppm	ASTM D5185m		3252	3145	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.3	18.7	
	Dese Nevelsey (DNI)				C 00	4.70	

Base Number (BN) mg KOH/g ASTM D2896

ASTM D445

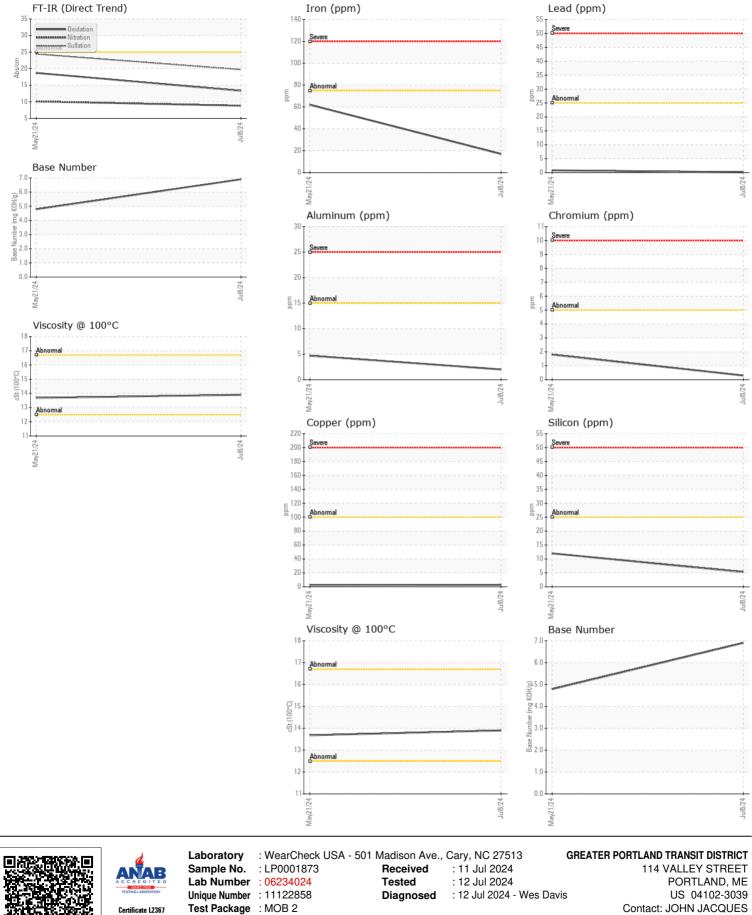
Visc @ 100°C cSt

4.79

13.68

6.90

13.9



* - 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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