

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

Machine Id

NEWFLYER 2030 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.

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All component wear rates are normal.

RECOMMENDATION

CONTAMINATION

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		LP0001883	LP0001972	
Sample Date		Client Info		20 Jun 2024	10 May 2024	
Machine Age	mls	Client Info		168773	0	
Oil Age	mls	Client Info		168773	0	
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	
Iron		ASTM D5185m	. 76	•	0	
Chromium	ppm	ASTM D5185m	>75	9 <1	8	
Nickel	ppm		>5 >4			
	ppm	ASTM D5185m		<1	<1	
Titanium	ppm	ASTM D5185m	>2	<1	<1	
Silver Aluminum	ppm	ASTM D5185m	>2	<1	<1 3	
	ppm	ASTM D5185m	>15	3 2		
Lead	ppm	ASTM D5185m ASTM D5185m	>25 >100	2	<1 2	
Copper Tin	ppm		>100	-	2	
Tin Vanadium	ppm	ASTM D5185m ASTM D5185m	>4	<1 <1		
Vanadium White Metal	ppm scalar	*Visual	NONE		<1 NONE	
				NONE		
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	ppm	ASTM D5185m	>25	4	5	
Potassium	ppm	ASTM D5185m	>20	5	3	
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	0.7	0.2	
Nitration	Abs/cm	*ASTM D7624	>20	9.8	8.6	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.7	
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	
Sodium	ppm	ASTM D5185m	>216	4	10	
Boron	ppm	ASTM D5185m		10	14	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	27	30	
Manganese	ppm	ASTM D5185m	450	<1	<1	
Magnesium	ppm	ASTM D5185m		42	30	
Calcium	ppm	ASTM D5185m	3000	2473	2274	
Phosphorus	ppm	ASTM D5185m	1150	980	917	
Zinc	ppm	ASTM D5185m	1350	1236	1094	
Sulfur	ppm	ASTM D5185m	4250	4409	3753	
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	14.3	
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.6	6.88	
Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.6	



Test Package : MOB 2 Contact: JOHN JACQUES Certificate L2367 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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Submitted By: JOHN JACQUES Page 2 of 2

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