WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL



Machine Id
NEWFLYER 1924
Component

Diesel Engine

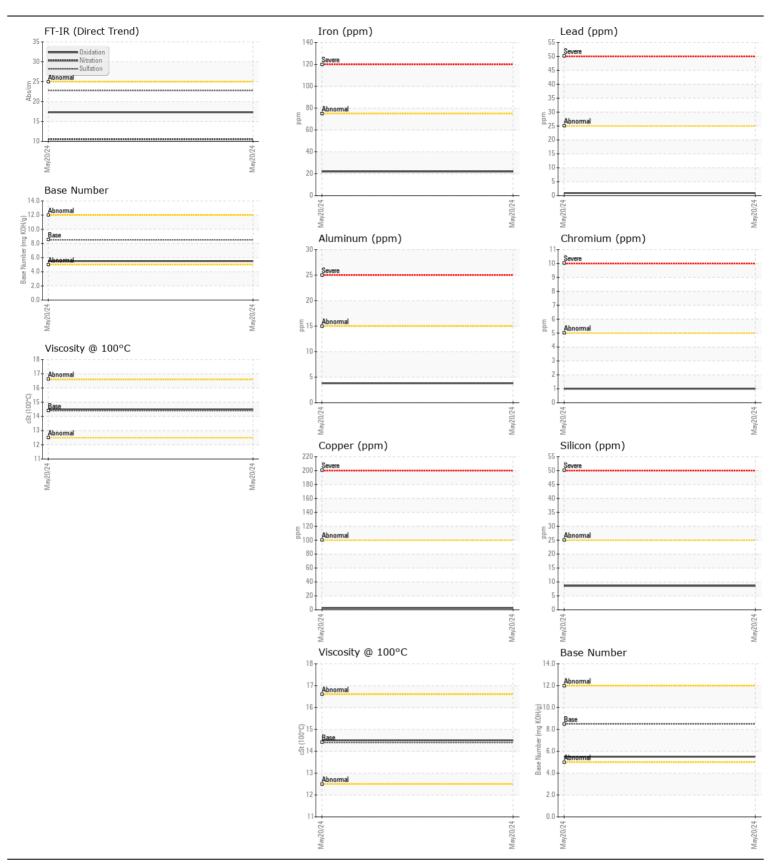
DIESEL ENGINE OIL SAE 40 (28 QTS)

DILOCE LINGING OIL OAL 40 (2	<u> </u>						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		LP0001980		
	Sample Date		Client Info		20 May 2024		
	Machine Age	mls	Client Info		211633		
	Oil Age	mls	Client Info		211633		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>75	22		
Metal levels are typical for a components first oil change.	Chromium	ppm	ASTM D5185m	>5	1		
	Nickel	ppm	ASTM D5185m	>4	<1		
	Titanium	ppm	ASTM D5185m	>2	<1		
	Silver	ppm	ASTM D5185m	>2	1		
	Aluminum	ppm	ASTM D5185m	>15	4		
	Lead	ppm	ASTM D5185m	>25	<1		
	Copper	ppm	ASTM D5185m	>100	2		
	Tin	ppm	ASTM D5185m	>4	1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		9		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method		<1.0		
	Water		WC Method	>0.2	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>6	0.5		
	Nitration	Abs/cm	*ASTM D7624	>20	10.5		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.8		
	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		
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	015		AOTM DE40E	040	40		
	Sodium	ppm	ASTM D5185m		10		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		15		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m	100	32		
	Manganese	ppm	ASTM D5185m	450	<1		
	Magnesium	ppm	ASTM D5185m		36		
	Calcium	ppm	ASTM D5185m		2462		
	Phosphorus	ppm	ASTM D5185m		980		
	Zinc	ppm	ASTM D5185m		1212		
	Sulfur	ppm	ASTM D5185m		4091		
	Oxidation	Abs/.1mm	*ASTM D7414		17.3		
	Base Number (BN)	0 0	ASTM D2896		5.5		
	VICO (a) 100°C	0 F.+	VC IV DVV	1/1/1	1/6		

Visc @ 100°C cSt

ASTM D445 14.4

14.5





Certificate L2367

Laboratory Sample No. Lab Number : 06189935 Unique Number : 11046687

: LP0001980 Test Package : MOB 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 23 May 2024 **Tested** : 25 May 2024

: 25 May 2024 - Wes Davis Diagnosed

**GREATER PORTLAND TRANSIT DISTRICT** 114 VALLEY STREET

PORTLAND, ME US 04102-3039

Contact: JOHN JACQUES jjacques@gpmetro.org

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\* - 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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