

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend





#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

#### Wear

All component wear rates are normal.

### 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.

		Nov	2022	May2023 Feb20	24	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0832068	WC0784073	WC0747832
Sample Date		Client Info		21 Feb 2024	01 May 2023	30 Nov 2022
Machine Age	mls	Client Info		231820	126969	69692
Oil Age	mls	Client Info		50000	50000	69000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION	٨	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	40	67	108
Chromium	ppm	ASTM D5185m	>20	<1	<1	2
Nickel	ppm	ASTM D5185m	>4	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	0	<1
Aluminum	ppm	ASTM D5185m	>20	6	14	25
Lead	ppm	ASTM D5185m	>40	0	<1	3
Copper	ppm	ASTM D5185m	>330	4	10	27
Tin	ppm	ASTM D5185m	>15	<1	<1	2
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	9	6	27
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	84	77	41
Manganese	ppm	ASTM D5185m		<1	1	2
Magnesium	ppm	ASTM D5185m	450	893	939	809
Calcium	ppm	ASTM D5185m	3000	1312	1445	1658
Phosphorus	ppm	ASTM D5185m	1150	1039	1057	861
Zinc	ppm	ASTM D5185m	1350	1245	1323	1140
Sulfur	ppm	ASTM D5185m	4250	3430	3407	3433
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	12	16
Sodium	ppm	ASTM D5185m		1	<1	5
Potassium	ppm	ASTM D5185m	>20	6	28	64
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.7	0.7
Nitration	Abs/cm	*ASTM D7624	>20	12.6	15.0	16.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.7	30.4	33.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.0	30.9	34.9
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	5.0	3.9	4.4



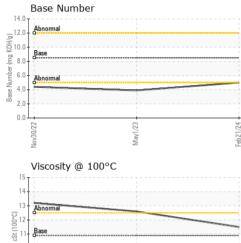
10 Abnormal

8.

Nov30/22

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VISUAL



CERTIFICATION Certificate L2367	Laboratory Sample No. Lab Number Unique Number Test Package	: WC0832068 : 06134462 : 10953927 : FLEET	Recei Teste Diagr	Madison Ave., Cary, NC 27513   Received : 01 Apr 2024   Tested : 02 Apr 2024   Diagnosed : 02 Apr 2024 - Wes Davis   ce at 1-800-237-1369.			MID-ATLANTIC TRANSPOR 38 IRONSIDE CT WILLINGBORO, N US 08046 Contact: GARY LAWYEF gary@midatlantictrans.com	
		13 Abnormal (5-000) 40 40 40 40 40 40 40 40 40 40	May1/23		12. (b)H10. 8. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9. 9.	0 - <u>Base</u> - <u>Abnormal</u> 0 -	May1/23	Escolog
		Viscosity @ 100°C	May1/23		+721/2 qay	Abnormal	per	
		Non-ferrous Metal						
		Ed 60 40 20 0 220 220 220 220 220 220 220 22	May1/23		Feb21/24			
May1/23	CLOTOR	GRAPHS Ferrous Alloys						
		FLUID PROPERT Visc @ 100°C	ries cSt	method ASTM D445	limit/base	current 11.5	history1 12.6	history2 13.2
W		Odor Emulsified Water Free Water	scalar scalar scalar	*Visual *Visual *Visual	NORML >0.2	NORML NEG NEG	NORML NEG NEG	NORML NEG NEG
May1/23	Feb21/24	Sand/Dirt Appearance	scalar scalar	*Visual *Visual	NONE NORML	NONE NORML	NONE	NONE NORML
		Yellow Metal Precipitate Silt Debris	scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NONE NONE NONE	NONE NONE NONE	NONE NONE	NONE NONE NONE

Contact/Location: GARY LAWYER - MIDWIL