

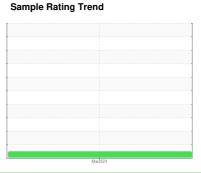




Action Newark MORBARK 4600XL 5594 (S/N 188-1051)

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)





Recommendation

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.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

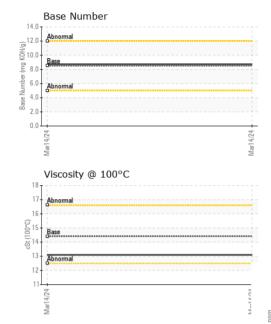
Fluid Condition

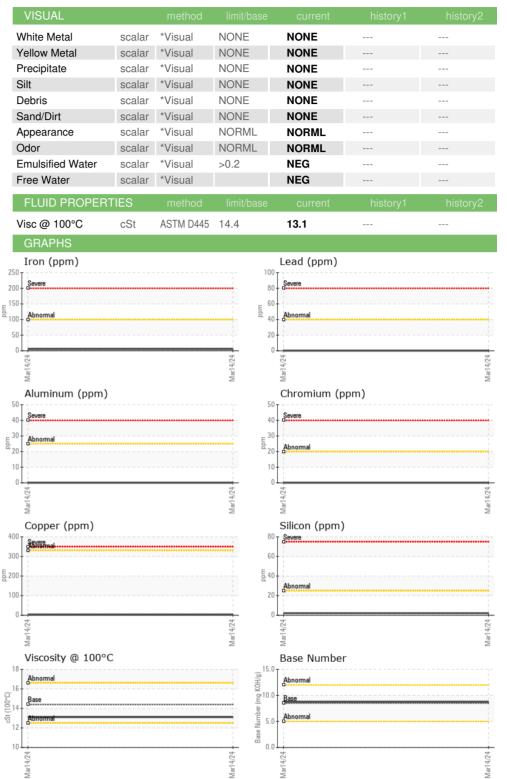
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

AE 40 (GAL)			ħ.	Mar2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900125		
Sample Date		Client Info		14 Mar 2024		
Machine Age	hrs	Client Info		4782		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
- uel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	5		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>2	0		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	0		
_ead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	3		
Γin	ppm	ASTM D5185m	>15	0		
/anadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	22		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	57		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m	450	873		
Calcium	ppm	ASTM D5185m	3000	1144		
Phosphorus	ppm	ASTM D5185m	1150	996		
Zinc	ppm	ASTM D5185m	1350	1172		
Sulfur	ppm	ASTM D5185m	4250	3739		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2		
Sodium	ppm	ASTM D5185m	>216	3		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2		
	% Abs/cm		>3 >20	0.2 5.1		
Nitration		*ASTM D7844				
Nitration	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>20	5.1		
Soot % Nitration Sulfation FLUID DEGRAD Oxidation	Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30	5.1 16.9		



OIL ANALYSIS REPORT









Laboratory Sample No.

: WC0900125

Lab Number : 06122052 **Unique Number** : 10936203

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

: 19 Mar 2024 : 19 Mar 2024

: 19 Mar 2024 - Wes Davis

Contact: Robert Witynski RWitynski@interstatewaste.com T:

INTERSTATE WASTE-NEWARK

110 EVERGREEN AVE, BAY 3

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)

NEWARK, NJ

US 07114

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