

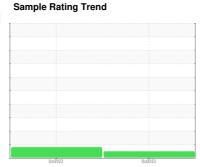
OIL ANALYSIS REPORT



Chester MACK 7005

Component **Diesel Engine**

DIESEL ENGINE OIL





DIAGNOSIS

Recommendation

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

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

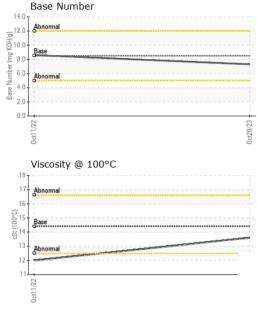
Fluid Condition

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

AE 15W40 (G	i AL)		Oct2022	Oct2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0831015	WC0744186	
Sample Date		Client Info		20 Oct 2023	11 Oct 2022	
Machine Age	hrs	Client Info		6241	46547	
Dil Age	hrs	Client Info		462	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINATIO	N	method	limit/base	current	history1	history2
-uel		WC Method	>3.0	<1.0	0.2	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>120	19	16	
Chromium	ppm	ASTM D5185m	>20	0	1	
Nickel	ppm	ASTM D5185m	>5	0	<u>12</u>	
Γitanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>20	<1	2	
_ead	ppm	ASTM D5185m	>40	0	<1	
Copper	ppm	ASTM D5185m	>330	4	98	
Γin	ppm		>15	0	1	
√anadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	7	21	
Barium	ppm	ASTM D5185m	10	0	0	
Molybdenum	ppm	ASTM D5185m	100	59	66	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m	450	700		
Calcium	ppm			782	895	
	ppiii	ASTM D5185m	3000	1198	895 1169	
Phosphorus		ASTM D5185m ASTM D5185m	3000 1150			
Phosphorus Zinc	ppm	ASTM D5185m	1150	1198	1169 919	
		ASTM D5185m		1198 915	1169	
Zinc	ppm ppm	ASTM D5185m ASTM D5185m	1150 1350	1198 915 1169	1169 919 1138	
Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1350 4250	1198 915 1169 2734	1169 919 1138 3102	
Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1350 4250 limit/base >25	1198 915 1169 2734 current	1169 919 1138 3102 history1	
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1150 1350 4250 limit/base >25 >158	1198 915 1169 2734 current	1169 919 1138 3102 history1	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	1150 1350 4250 limit/base >25 >158	1198 915 1169 2734 current 4	1169 919 1138 3102 history1 3	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	1150 1350 4250 limit/base >25 >158 >20	1198 915 1169 2734 current 4 22 0	1169 919 1138 3102 history1 3 7 <1	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1350 4250 limit/base >25 >158 >20 limit/base	1198 915 1169 2734 current 4 22 0	1169 919 1138 3102 history1 3 7 <1	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	1150 1350 4250 limit/base >25 >158 >20 limit/base >4	1198 915 1169 2734 current 4 22 0 current 0.6	1169 919 1138 3102 history1 3 7 <1 history1	history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m D5185m ASTM D7624	1150 1350 4250 limit/base >25 >158 >20 limit/base >4 >20	1198 915 1169 2734 current 4 22 0 current 0.6 8.3	1169 919 1138 3102 history1 3 7 <1 history1 0.6 9.5	history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1150 1350 4250 limit/base >25 >158 >20 limit/base >4 >20 >30	1198 915 1169 2734 current 4 22 0 current 0.6 8.3 19.9	1169 919 1138 3102 history1 3 7 <1 history1 0.6 9.5 22.6	history2



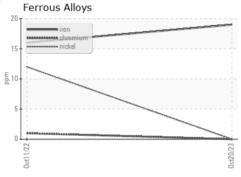
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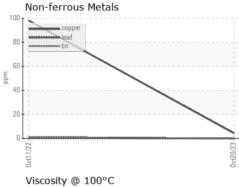


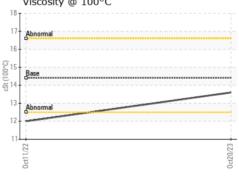
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Free Water	scalar	*Visual		NEG	NEG	
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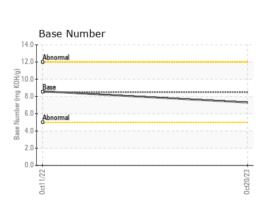
PLUID PROPERTIES		method			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	14.4	13.6	12.0	

GRAPHS











Certificate L2367

Laboratory Sample No. Lab Number Test Package : FLEET

: WC0831015 : 05998680 Unique Number : 10727040

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 06 Nov 2023 Diagnosed : 06 Nov 2023 Diagnostician : Wes Davis

89 BLACK MEADOW RD

US 10918 Contact: ROB CLARKE rclarke@interstatewaste.com

CHESTER, NY

F: (845)572-3301

INTERSTATE WASTE-CHESTER

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: INTCHE [WUSCAR] 05998680 (Generated: 11/06/2023 18:41:19) Rev: 1

Contact/Location: ROB CLARKE - INTCHE

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