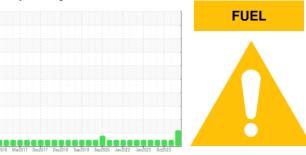


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

ADVANCE MIXER 243

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

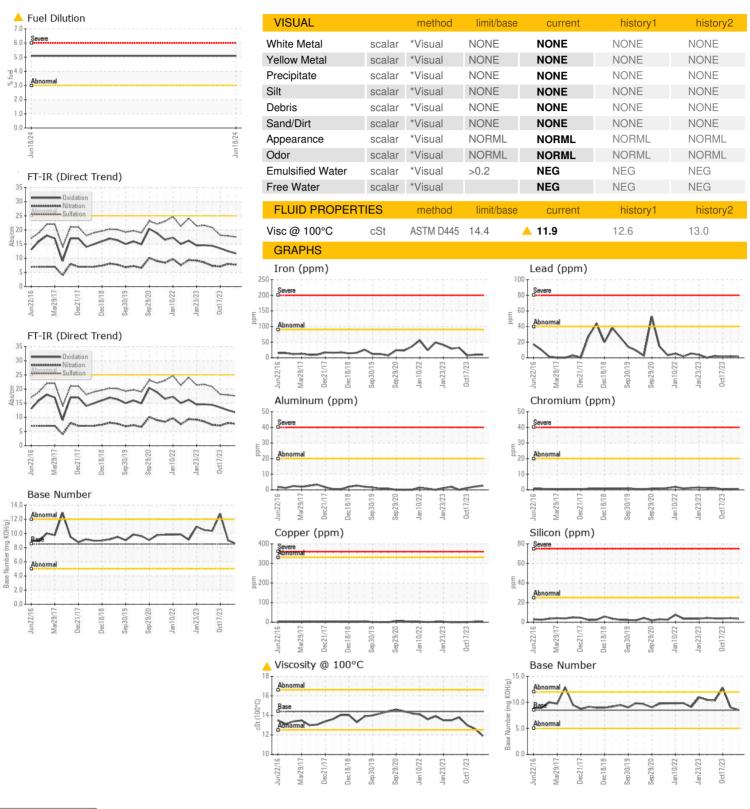
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LP0001456	LP0000941	LP0000509
Sample Date		Client Info		18 Jun 2024	23 Jan 2024	17 Oct 2023
Machine Age	hrs	Client Info		40000	40000	40000
Oil Age	hrs	Client Info		500	500	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
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	>90	10	10	7
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	3	2	1
Lead	ppm	ASTM D5185m	>40	1	2	1
Copper	ppm	ASTM D5185m	>330	3	3	<1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	14	32	15
Barium	ppm	ASTM D5185m	10	1	0	0
Molybdenum						
	ppm	ASTM D5185m	100	13	41	52
Manganese	ppm ppm	ASTM D5185m ASTM D5185m	100	13 <1	41 <1	52 <1
•			100 450	_		
Magnesium	ppm	ASTM D5185m		<1	<1	<1
Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	450	<1 75	<1 114	<1 582
Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	450 3000	<1 75 2115	<1 114 1995	<1 582 1406
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150 1350	<1 75 2115 949	<1 114 1995 923	<1 582 1406 987
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150 1350	<1 75 2115 949 1003	<1 114 1995 923 1075	<1 582 1406 987 1184
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150 1350 4250 limit/base	<1 75 2115 949 1003 3537	<1 114 1995 923 1075 3267	<1 582 1406 987 1184 3227
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	450 3000 1150 1350 4250 limit/base	<1 75 2115 949 1003 3537 current	<1 114 1995 923 1075 3267 history1	<1 582 1406 987 1184 3227 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	450 3000 1150 1350 4250 limit/base >25	<1 75 2115 949 1003 3537 current 3	<1 114 1995 923 1075 3267 history1	<1 582 1406 987 1184 3227 history2
Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	450 3000 1150 1350 4250 Iimit/base >25 >158	<1 75 2115 949 1003 3537 current 3 0	<1 114 1995 923 1075 3267 history1 4 <1	<1 582 1406 987 1184 3227 history2 4
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	450 3000 1150 1350 4250 limit/base >25 >158 >20	<1 75 2115 949 1003 3537 current 3 0 2	<1 114 1995 923 1075 3267 history1 4 <1 2	<1 582 1406 987 1184 3227 history2 4 0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	450 3000 1150 1350 4250 Iimit/base >25 >158 >20 >3.0	<1 75 2115 949 1003 3537 current 3 0 2 5.1	<1 114 1995 923 1075 3267 history1 4 <1 2 <1.0	<1 582 1406 987 1184 3227 history2 4 0 1 <1.0
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	450 3000 1150 1350 4250 limit/base >25 >158 >20 >3.0	<1 75 2115 949 1003 3537 current 3 0 2 ▲ 5.1 current	<1 114 1995 923 1075 3267 history1 4 <1 2 <1.0 history1	<1 582 1406 987 1184 3227 history2 4 0 1 <1.0 history2
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524 method *ASTM D7844	450 3000 1150 1350 4250 Iimit/base >25 >158 >20 >3.0 Iimit/base >6	<1 75 2115 949 1003 3537 current 3 0 2 ▲ 5.1 current 0.4	<1 114 1995 923 1075 3267 history1 4 <1 2 <1.0 history1 0.4	<1 582 1406 987 1184 3227 history2 4 0 1 <1.0 history2 0.4
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	450 3000 1150 1350 4250 limit/base >25 >158 >20 >3.0 limit/base >6 >20	<1 75 2115 949 1003 3537	<1 114 1995 923 1075 3267 history1 4 <1 2 <1.0 history1 0.4 8.0	<1 582 1406 987 1184 3227 history2 4 0 1 <1.0 history2 0.4 7.1
Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7614	450 3000 1150 1350 4250 limit/base >25 >158 >20 >3.0 limit/base >6 >20 >30	<1 75 2115 949 1003 3537 current 3 0 2 ▲ 5.1 current 0.4 7.7 17.5	<1 114 1995 923 1075 3267 history1 4 <1 2 <1.0 history1 0.4 8.0 17.9	<1 582 1406 987 1184 3227 history2 4 0 1 <1.0 history2 0.4 7.1 18.1



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LP0001456 Lab Number : 06218907

Unique Number : 11097104

Received **Tested**

Diagnosed : 27 Jun 2024 - Wes Davis Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

: 24 Jun 2024

: 27 Jun 2024

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

 st - 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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Report Id: TREMILMA [WUSCAR] 06218907 (Generated: 07/03/2024 09:07:32) Rev: 1

Submitted By: JOHN HATZISTEFANOU