

OIL ANALYSIS REPORT

Sample Rating Trend



TADANO GR550XL RT2244 (S/N 542244)

Diesel Engine

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a components first oil change.

Contamination

There is no indication of any contamination in the oil.

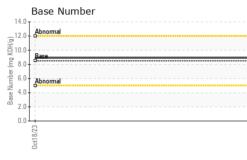
Fluid Condition

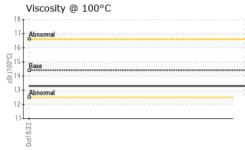
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

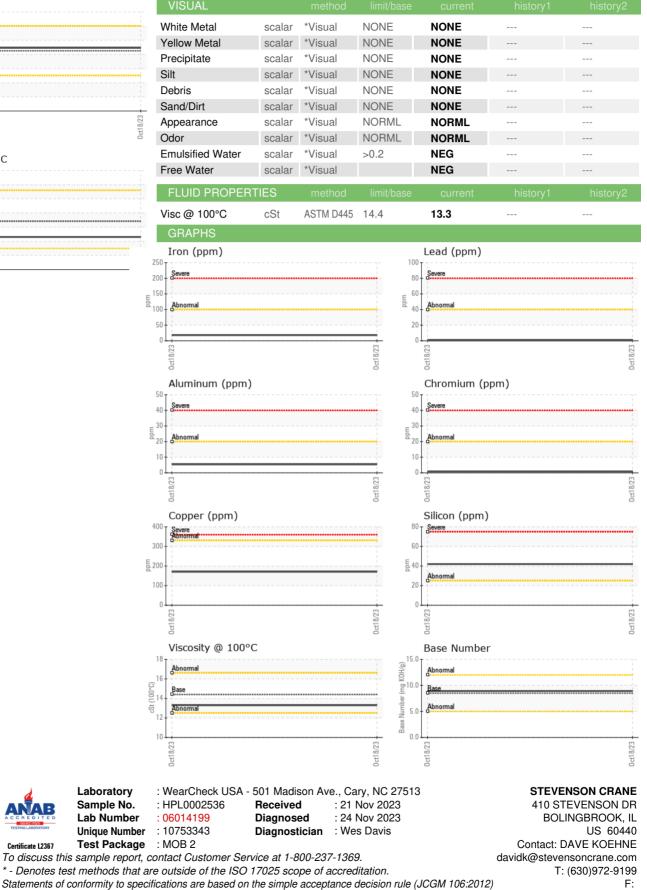
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		HPL0002536		
Sample Date		Client Info		18 Oct 2023		
Machine Age	hrs	Client Info		748		
Oil Age	hrs	Client Info		748		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	18		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m	- 1	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	5		
Lead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	171		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	82		
Barium	ppm	ASTM D5185m	10	7		
Molybdenum	ppm	ASTM D5185m	100	59		
Manganese	ppm	ASTM D5185m		5		
Magnesium	ppm	ASTM D5185m	450	385		
Calcium	ppm					
Phosphorus		ASTM D5185m	3000	1783		
Filospiloius	ppm	ASTM D5185m ASTM D5185m	3000 1150			
Zinc				1783		
	ppm	ASTM D5185m	1150	1783 997		
Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	1150 1350	1783 997 1239		
Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1150 1350 4250 limit/base	1783 997 1239 3193		
Zinc Sulfur CONTAMINANTS	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	1150 1350 4250 limit/base >25	1783 997 1239 3193 current	 history1	 history2
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	1150 1350 4250 limit/base >25 >158	1783 997 1239 3193 current 42	 history1	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	1150 1350 4250 limit/base >25 >158	1783 997 1239 3193 current 42 5	 history1 	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844	1150 1350 4250 limit/base >25 >158 >20	1783 997 1239 3193 current 42 5 7	 history1 	 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m ASTM D5185m	1150 1350 4250 limit/base >25 >158 >20 limit/base	1783 997 1239 3193 current 42 5 7 7 current	 history1 history1	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844	1150 1350 4250 iimit/base >25 >158 >20 iimit/base >3	1783 997 1239 3193 current 42 5 7 current 0.1	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624	1150 1350 4250 limit/base >25 >158 >20 limit/base >3 >20	1783 997 1239 3193 current 42 5 7 current 0.1 8.8	 history1 history1 	 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7844 *ASTM D7844	1150 1350 4250 imit/base >25 >158 >20 imit/base >3 >20 >3 >20	1783 997 1239 3193 current 42 5 7 current 0.1 8.8 20.7	 history1 history1 	 history2 history2 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm ppm Abs/cm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	1150 1350 4250 imit/base >25 >158 >20 imit/base >3 >20 >30	1783 997 1239 3193 current 42 5 7 current 0.1 8.8 20.7 current	 history1 history1 history1	 history2 history2 history2 history2 history2



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Certificate L2367

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