

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

SD150 HILLCREST

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

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		method	limit/base	current	history1	history2
Sample Number		Client Info		WC0884324		
Sample Date		Client Info		06 Mar 2024		
Machine Age	hrs	Client Info		284		
Oil Age	hrs	Client Info		38		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method		NEG		
Glycol		WC Method	20.L	NEG		
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WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>4	<1		
Titanium	ppm	ASTM D5185m		1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	1		
Copper	ppm	ASTM D5185m	>330	<1		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	98		
Barium	ppm	ASTM D5185m	10	0		
Molybdenum	ppm	ASTM D5185m	100	56		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m	450	555		
Calcium	ppm	ASTM D5185m	3000	1563		
Phosphorus	ppm	ASTM D5185m	1150	1032		
Zinc	ppm	ASTM D5185m	1350	1222		
Sulfur	ppm	ASTM D5185m	4250	3329		
CONTAMINANTS						
		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	history1	history2
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >158	7 2		
Silicon Sodium Potassium	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>25 >158 >20	7 2 1		
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>25 >158	7 2		
Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >158 >20	7 2 1 current 0.1		
Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	>25 >158 >20 limit/base	7 2 1 current	 history1	 history2
Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	>25 >158 >20 limit/base >3	7 2 1 current 0.1	 history1 	 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m • ASTM D7844 * ASTM D7624	>25 >158 >20 limit/base >3 >20	7 2 1 current 0.1 6.6	 history1 	 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm % Abs/cm Abs/.1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	>25 >158 >20 limit/base >3 >20 >30	7 2 1 current 0.1 6.6 19.1	 history1 	 history2
Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm % Abs/cm Abs/cm Abs/1mm	ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415 method	>25 >158 >20 limit/base >3 >20 >30 limit/base	7 2 1 current 0.1 6.6 19.1 current	 history1 	 history2 history2







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0.212.0 0.0 KOH/g) 0.8 Base Number (mg KOH/g) 0.9 CON KOH/g)

2.0

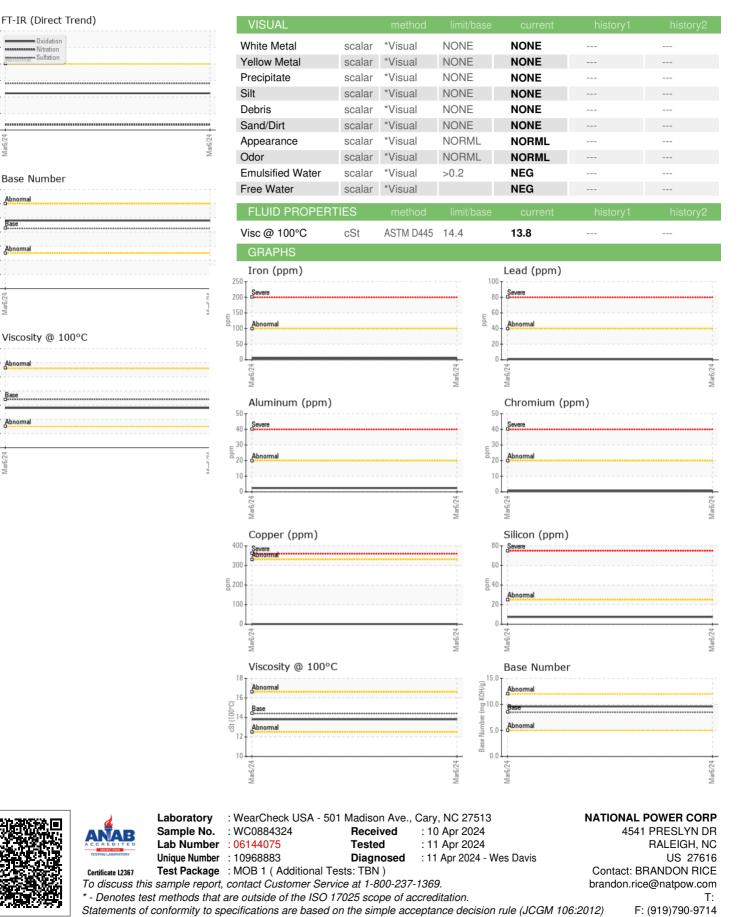
0.0

18 17

16 cSt (100°C) Bas

Mar6/74

OIL ANALYSIS REPORT



Contact/Location: BRANDON RICE - NATRAL