

OIL ANALYSIS REPORT



NOT GIVEN PCA0097297 (S/N NO INFO ON SIF/BOTTLE)

Diesel Engine

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.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

Fluid Condition

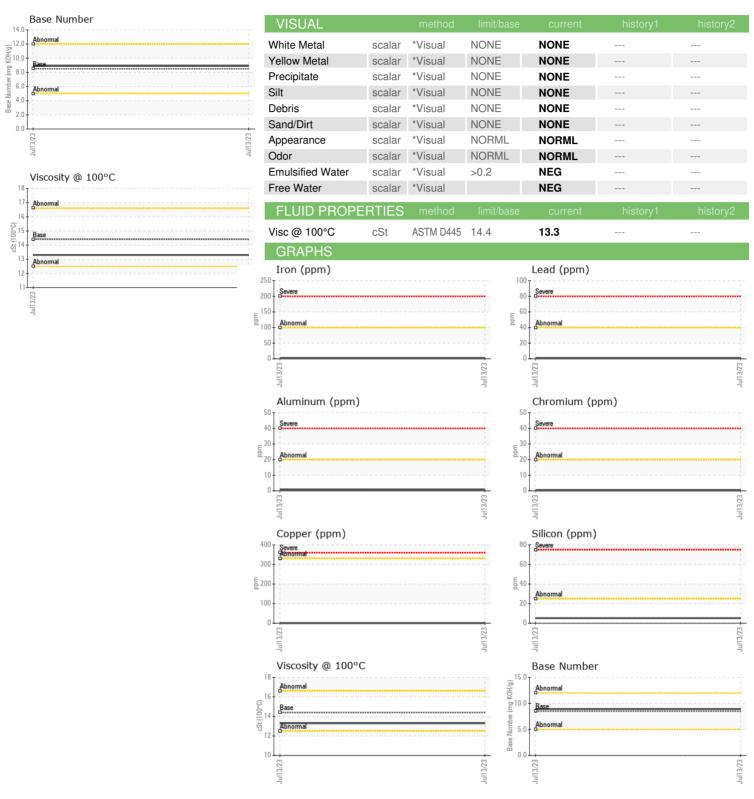
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Samp	Sample Rating Trend					
	1					
	Jul202	23				
nethod	limit/base	current	history1			

SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0097297		
Sample Date		Client Info		13 Jul 2023		
Machine Age	hrs	Client Info		6359		
Oil Age	hrs	Client Info		250		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	2		
Chromium Nickel	ppm	ASTM D5185m	>20 >4	<1 0		
Titanium	ppm	ASTM D5185m	>4	-		
Silver	ppm	ASTM D5185m ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5165III	>3	ں <1		
Lead	ppm		>40	<1 <1		
	ppm	ASTM D5185m	>40	<1 <1		
Copper	ppm	ASTM D5185m				
Tin Vanadium	ppm	ASTM D5185m	>15	<1		
Cadmium	ppm	ASTM D5185m ASTM D5185m		<1 <1		
	ppm	HICOLCG INLOW		<1		
ADDITIVES		method	limit/base	current	history1	history2
ADDITIVES Boron	ppm	method ASTM D5185m	limit/base 250	current 9	history1	history2
	ppm				· ·	,
Boron Barium Molybdenum	• • • • • • • • • • • • • • • • • • • •	ASTM D5185m ASTM D5185m ASTM D5185m	250	9 0 39		
Boron Barium Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	250 10	9 0		
Boron Barium Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450	9 0 39 <1 657		
Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000	9 0 39 <1 657 954		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	9 0 39 <1 657 954 787		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350	9 0 39 <1 657 954 787 965		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150	9 0 39 <1 657 954 787		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350	9 0 39 <1 657 954 787 965 2947 current		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250	9 0 39 <1 657 954 787 965		
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25	9 0 39 <1 657 954 787 965 2947 current	 history1	 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon	ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25	9 0 39 <1 657 954 787 965 2947 current	 history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium	ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >158	9 0 39 <1 657 954 787 965 2947 current 5	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium	ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >158 >20	9 0 39 <1 657 954 787 965 2947 current 5 1	history1	history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED	ppm	ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >158 >20 limit/base	9 0 39 <1 657 954 787 965 2947 current 5 1	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot %	ppm	ASTM D5185m Method *ASTM D5185m *ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >158 >20 limit/base	9 0 39 <1 657 954 787 965 2947 current 5 1 4 current	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm	ASTM D5185m Method *ASTM D5185m ASTM D5185m	250 10 100 450 3000 1150 1350 4250 limit/base >25 >158 >20 limit/base	9 0 39 <1 657 954 787 965 2947 current 5 1 4 current 0.1 5.2	history1 history1	history2 history2
Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINAN Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m Method *ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D7415	250 10 100 450 3000 1150 1350 4250 limit/base >25 >158 >20 limit/base >3 >20 >30	9 0 39 <1 657 954 787 965 2947 current 5 1 4 current 0.1 5.2 16.8	history1 history1	history2 history2



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

Unique Number

: 05936965 : 10622236

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0097297 Received : 29 Aug 2023 : 29 Aug 2023 Diagnosed

Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: TBN) Certificate L2367 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)

NORTH AMERICAN STEVEDORING CO

9301 S KREITER AVE CHICAGO, IL US 60617

Contact: PACO MARTINEZ

paco.martinez@qsl.com

T:

F: Contact/Location: PACO MARTINEZ - NORCHILL