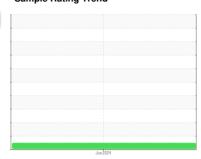


# **OIL ANALYSIS REPORT**

Sample Rating Trend



NORMAL



EMD 410
Component
Diesel Engine
Fluid

{not provided} (--- GAL)

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

Machine Id

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 acceptable for the time in service.

			,	Jun 2024		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0092716		
Sample Date		Client Info		10 Jun 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2
Fuel		WC Method	>4	<1.0		
Water		WC Method	>0.20	NEG		
Glycol		WC Method		NEG		
WEAR META	LS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	12		
Chromium	ppm	ASTM D5185m	>15	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>10	2		
Lead	ppm	ASTM D5185m	>75	2		
Copper	ppm	ASTM D5185m	>90	7		
Tin	ppm		>30	5		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		41		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		45		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		12		
Calcium	ppm	ASTM D5185m		3631		
Phosphorus	ppm	ASTM D5185m		3		
Zinc	ppm	ASTM D5185m		6		
Sulfur	ppm	ASTM D5185m		3427		
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>17	3		
Sodium	ppm	ASTM D5185m		3		
Potassium	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7		
Nitration	Abs/cm	*ASTM D7624	>20	7.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.6		
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.9		
Base Number (BN)	mg KOH/g	ASTM D2896		10.12		



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: PCA0092716 Lab Number : 06216362 Unique Number : 11089226

Received **Tested** Diagnosed : 20 Jun 2024

: 24 Jun 2024

: 24 Jun 2024 - Sean Felton

Test Package : MOB 2 ( Additional Tests: TAN Man )

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)

**HOWELL OIL COMPANY** 

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