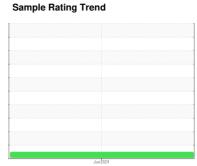


OIL ANALYSIS REPORT



NORMAL



EMD 407 Component
Diesel Engine {not provided} (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Machine Id

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 acceptable for the time in service.

				Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0092718		
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		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>4	<1.0		
Water		WC Method	>0.20	NEG		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	11		
Chromium	ppm	ASTM D5185m	>15	0		
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	5		
Copper	ppm	ASTM D5185m		4		
Борреі Гіп	ppm	ASTM D5185m	>30	2		
Vanadium	ppm	ASTM D5185m	>00	0		
Cadmium	ppm	ASTM D5185m		0		
	ррпп		11 12 11			
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		48		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		44		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		25		
Calcium	ppm	ASTM D5185m		3539		
Phosphorus	ppm	ASTM D5185m		11		
Zinc	ppm	ASTM D5185m		19		
Sulfur	ppm	ASTM D5185m		3415		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>17	9		
Sodium	ppm	ASTM D5185m		43		
Potassium	ppm	ASTM D5185m	>20	4		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4		
Nitration	Abs/cm	*ASTM D7624	>20	7.7		
Sulfation	Abs/.1mm	*ASTM D7415	>30	14.9		
FLUID DEGRAI	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	6.8		
	mg KOH/g	ASTM D2896		10.45		



OIL ANALYSIS REPORT





Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0092718 Lab Number : 06216361

Unique Number : 11089225

Received : 20 Jun 2024 **Tested** Diagnosed

: 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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