

OIL ANALYSIS REPORT

Paul G. Blazer [Paul G. Blazer] Oil - Port Genset

Port Genset

Fluid DIESEL ENGINE OIL SAE 15W40 (8 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

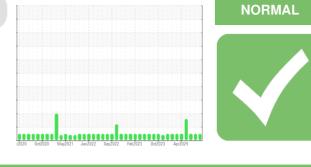
All component wear rates are normal.

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 suitable for further service.



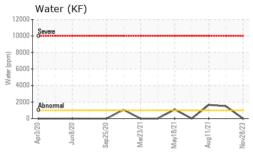
Sample Rating Trend

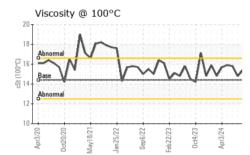
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0845835	WC0845835	WC0845824
Sample Date		Client Info		09 Jul 2024	09 Jul 2024	16 May 2024
Machine Age	hrs	Client Info		18502	18502	18010
Oil Age	hrs	Client Info		1	1	480
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	2	6	6
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>12	3	3	<1
Lead	ppm	ASTM D5185m	>17	<1	<1	<1
Copper	ppm	ASTM D5185m	>70	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	15	8	19
Barium	ppm	ASTM D5185m	10	<1	<1	0
Molybdenum	ppm	ASTM D5185m	100	58	70	77
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m	450	1376	1451	1980
Calcium	ppm	ASTM D5185m	3000	1111	1166	1592
Phosphorus	ppm	ASTM D5185m	1150	923	932	1323
Zinc	ppm	ASTM D5185m	1350	1211	1221	1645
Sulfur	ppm	ASTM D5185m	4250	3222	3218	4506
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	3	3
Sodium	ppm	ASTM D5185m	>158	<1	0	<1
Potassium	ppm	ASTM D5185m	>20	2	2	0
Water	%	ASTM D6304	>0.1	NEG	NEG	NEG
	70					
INFRA-RED	70	method	limit/base	current	history1	history2
INFRA-RED Soot %	%	method *ASTM D7844	limit/base		history1 1	history2 0.1
				current		
Soot %	%	*ASTM D7844	>20	current 0.1	1	0.1
Soot % Nitration	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624	>20	current 0.1 7.6	1 7.4	0.1 14.7
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20 >30 limit/base	current 0.1 7.6 19.7	1 7.4 20.0	0.1 14.7 25.2
Soot % Nitration Sulfation FLUID DEGRADA	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415 method	>20 >30 limit/base >25	current 0.1 7.6 19.7 current	1 7.4 20.0 history1	0.1 14.7 25.2 history2

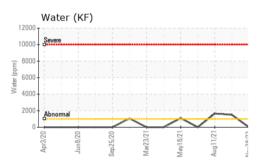


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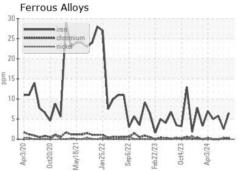


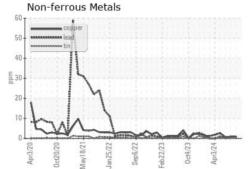


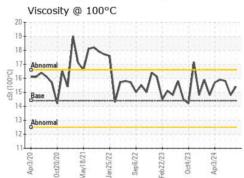


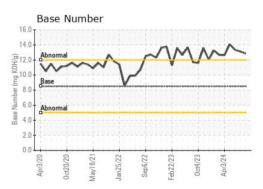
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	15.4	14.8	15.8

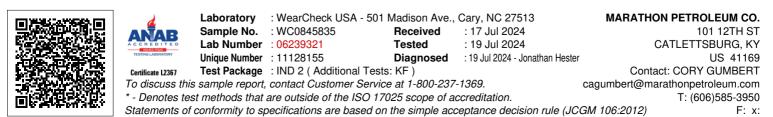
GRAPHS











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Submitted By: M/V PAUL BLAZER

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