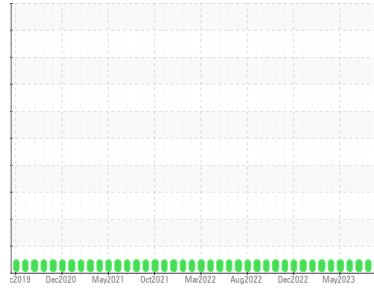




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Paul G. Blazer
 Machine Id
[Paul G. Blazer] Oil - Port Main Engine
 Component
Port Main Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (150 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 INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0719542	WC0621764	WC0719300
Sample Date	Client Info		04 Oct 2023	31 Aug 2023	07 Aug 2023
Machine Age	hrs	Client Info	69324	68614	68110
Oil Age	hrs	Client Info	2123	1413	899
Oil Changed	Client Info		N/A	Not Changd	N/A
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	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 >75	10	6	4
Chromium	ppm	ASTM D5185m >8	<1	0	<1
Nickel	ppm	ASTM D5185m >2	<1	0	<1
Titanium	ppm	ASTM D5185m >3	0	<1	<1
Silver	ppm	ASTM D5185m >2	0	0	<1
Aluminum	ppm	ASTM D5185m >15	7	<1	1
Lead	ppm	ASTM D5185m >18	<1	<1	2
Copper	ppm	ASTM D5185m >80	<1	<1	4
Tin	ppm	ASTM D5185m >14	<1	<1	<1
Vanadium	ppm	ASTM D5185m	0	<1	<1
Cadmium	ppm	ASTM D5185m	0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	97	125	144
Barium	ppm	ASTM D5185m 10	0	0	0
Molybdenum	ppm	ASTM D5185m 100	75	69	69
Manganese	ppm	ASTM D5185m	<1	<1	2
Magnesium	ppm	ASTM D5185m 450	996	903	794
Calcium	ppm	ASTM D5185m 3000	1407	1539	1398
Phosphorus	ppm	ASTM D5185m 1150	804	731	699
Zinc	ppm	ASTM D5185m 1350	999	908	867
Sulfur	ppm	ASTM D5185m 4250	3226	3273	3348

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	3	3	4
Sodium	ppm	ASTM D5185m >158	<1	<1	5
Potassium	ppm	ASTM D5185m >20	1	1	3

INFRA-RED

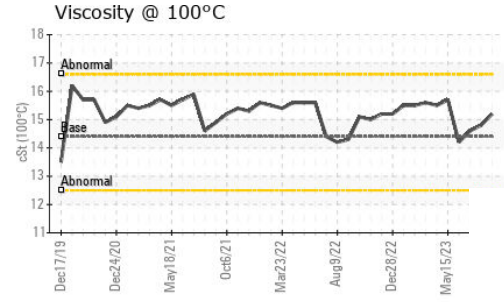
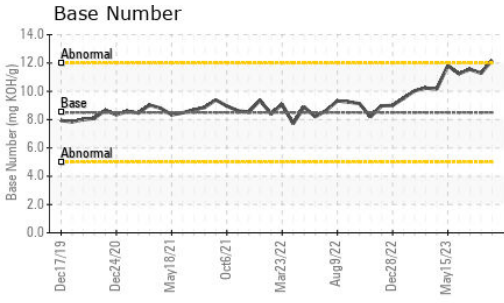
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	1.4	1.5	1
Nitration	Abs/cm	*ASTM D7624 >20	8.3	7.8	7.0
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.7	22.3	21.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	15.9	15.7	15.5
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	12.19	11.28	11.55



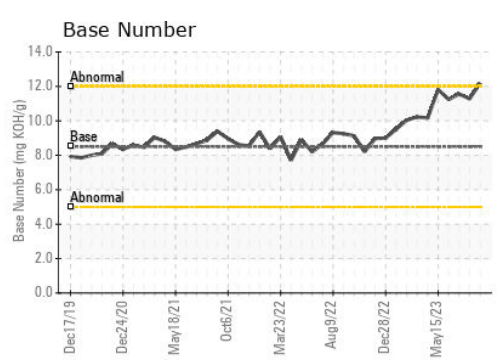
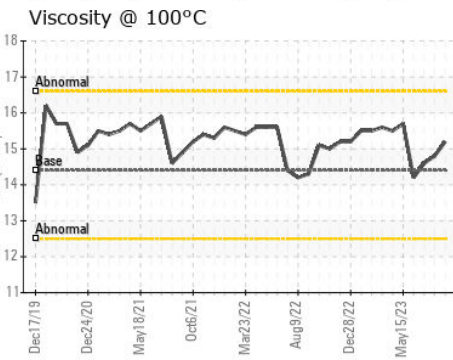
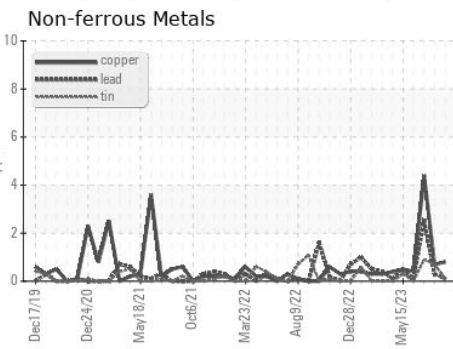
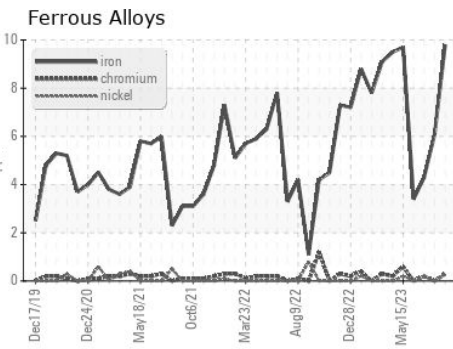
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	15.2	14.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0719542 **Received** : 13 Oct 2023
Lab Number : 05978422 **Diagnosed** : 17 Oct 2023
Unique Number : 10695717 **Diagnostician** : Angela Borella
Test Package : IND 2

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 CATLETTSBURG, KY
 US 41169
 Contact: CORY GUMBERT
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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)