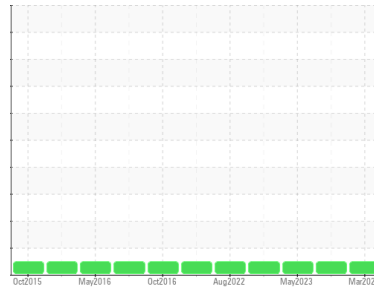




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area

[3238470]

Machine Id

GENERAC GENERATOR 2592960200 4008413 - DUNKIRK VFD (S/N 2068816)

Component

Propane Engine

Fluid

SAE 5W30 (6 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		DC0034992	DC0029902	DC0026726
Sample Date	Client Info		28 Mar 2024	08 Aug 2023	10 May 2023
Machine Age	hrs	Client Info	405	396	392
Oil Age	hrs	Client Info	0	3	0
Oil Changed	Client Info		Not Chngd	Not Chngd	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	1	<1	2
Chromium	ppm	ASTM D5185m	>25	<1	0	0
Nickel	ppm	ASTM D5185m	>5	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	<1	0
Lead	ppm	ASTM D5185m	>25	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	3	<1	0
Tin	ppm	ASTM D5185m	>8	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		182	228	183
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		70	67	71
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		556	544	555
Calcium	ppm	ASTM D5185m		1273	1254	1220
Phosphorus	ppm	ASTM D5185m		826	687	739
Zinc	ppm	ASTM D5185m		892	811	884
Sulfur	ppm	ASTM D5185m		3145	3413	3493

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	8	8	9
Sodium	ppm	ASTM D5185m		6	3	4
Potassium	ppm	ASTM D5185m	>20	2	4	<1

INFRA-RED

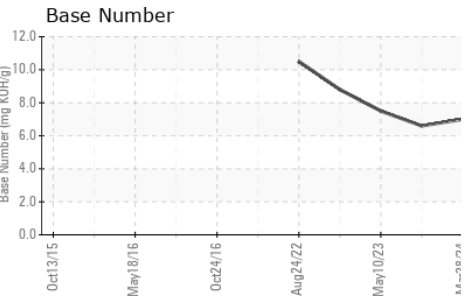
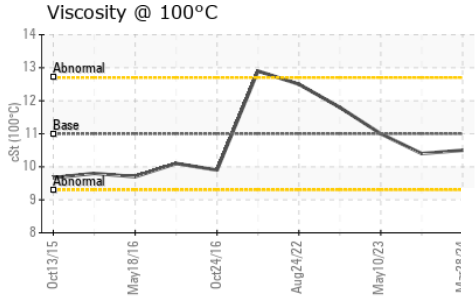
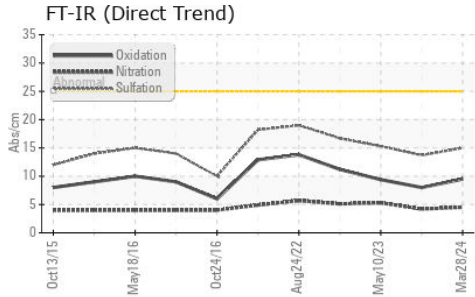
	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	4.5	4.2	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	15.0	13.7	15.3

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	9.5	8.0	9.4
Base Number (BN)	mg KOH/g	ASTM D2896		7.0	6.6	7.5



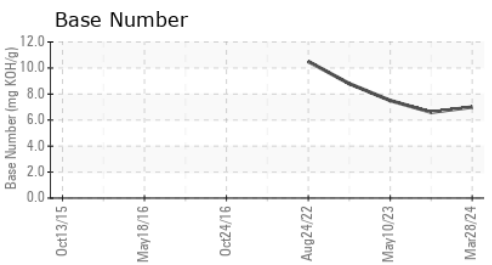
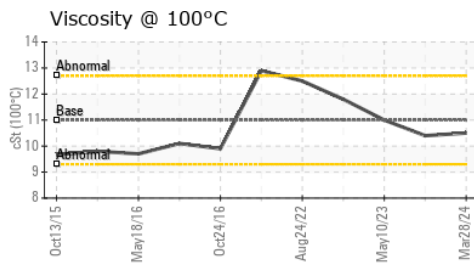
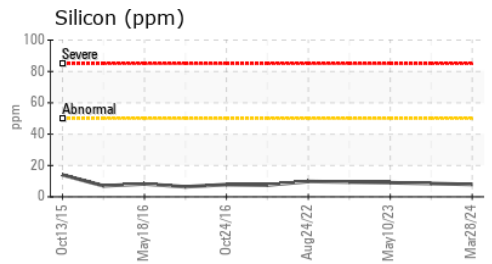
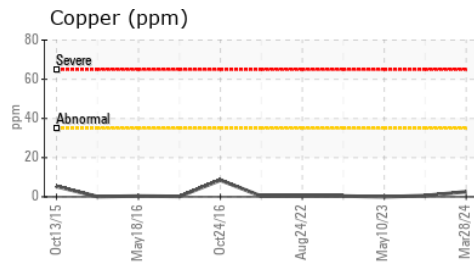
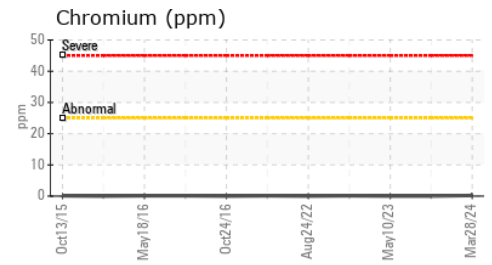
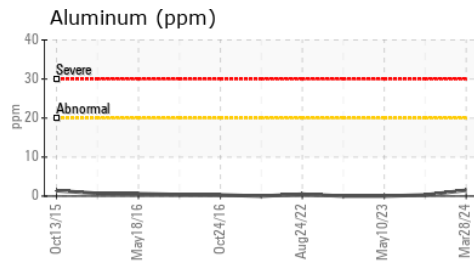
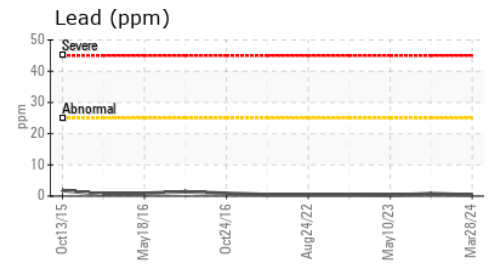
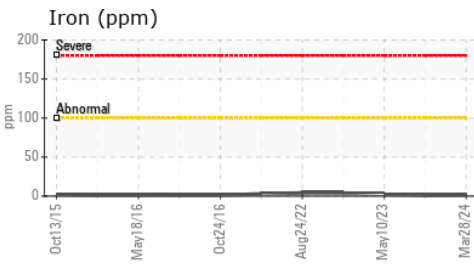
OIL ANALYSIS REPORT



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	11.0	10.5	10.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034992 **Received** : 17 Apr 2024
Lab Number : 06151831 **Tested** : 18 Apr 2024
Unique Number : 10981909 **Diagnosed** : 19 Apr 2024 - Don Baldrige
Test Package : MOB 1

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 US 20736
 Contact: LESLIE SNURR
 LSNURR@KGE.COM
 T: (410)257-5225
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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)