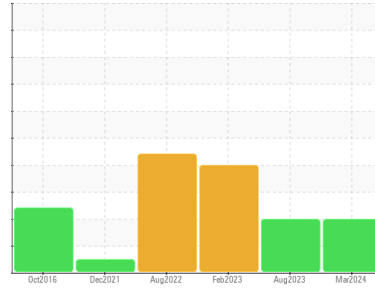




OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area

[PMIAS3216369]

Machine Id

GENERAC 20822160200 (S/N 9967694)

Component

Liquid Petroleum Gas

Fluid

SAE 5W30 (--- QTS)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	DC0034967	DC0029900	DC0025597
Sample Date	Client Info	29 Mar 2024	10 Aug 2023	15 Feb 2023
Machine Age	hrs	209	197	187
Oil Age	hrs	0	5	0
Oil Changed	Client Info	Not Chngd	Not Chngd	N/A
Sample Status		ABNORMAL	ABNORMAL	SEVERE

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >120	2	4	7
Chromium ppm	ASTM D5185m >10	<1	0	<1
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	<1
Lead ppm	ASTM D5185m >40	4	9	11
Copper ppm	ASTM D5185m >300	<1	<1	1
Tin ppm	ASTM D5185m >10	0	<1	<1
Vanadium ppm	ASTM D5185m	0	<1	<1
Cadmium ppm	ASTM D5185m	0	0	<1

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	169	131	135
Barium ppm	ASTM D5185m	0	0	0
Molybdenum ppm	ASTM D5185m	61	39	42
Manganese ppm	ASTM D5185m	0	<1	<1
Magnesium ppm	ASTM D5185m	537	684	674
Calcium ppm	ASTM D5185m	1129	787	834
Phosphorus ppm	ASTM D5185m	696	598	633
Zinc ppm	ASTM D5185m	777	722	784
Sulfur ppm	ASTM D5185m	2646	2812	2786

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >25	14	11	14
Sodium ppm	ASTM D5185m	4	4	10
Potassium ppm	ASTM D5185m >20	2	5	<1
Water %	ASTM D6304 >0.1	▲ 0.520	▲ 0.289	▲ 1.96
ppm Water	ASTM D6304 >1000	▲ 5200	▲ 2890	▲ 19600

INFRA-RED

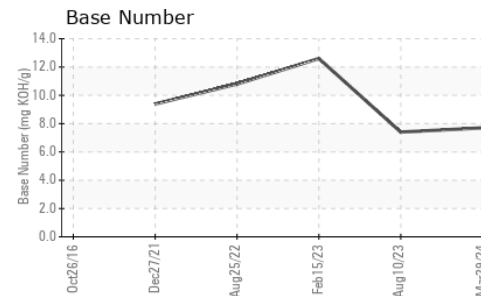
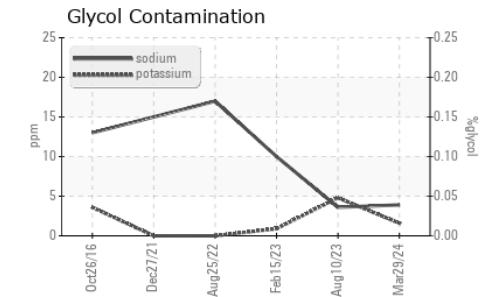
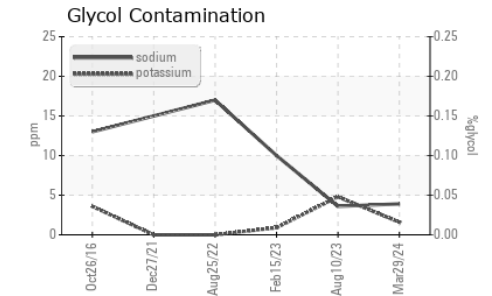
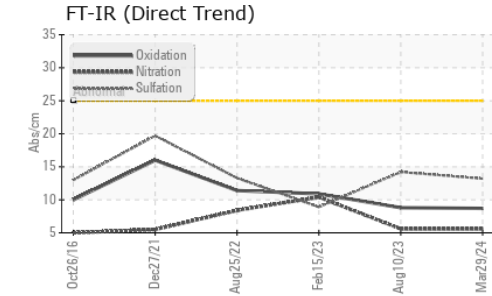
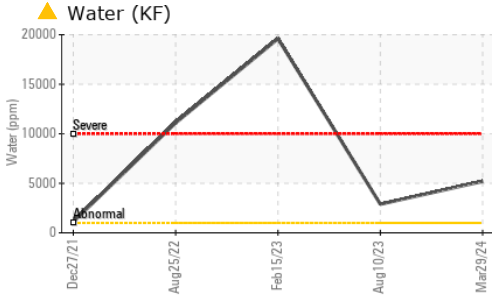
method	limit/base	current	history1	history2
Soot %	*ASTM D7844	0.1	0	0.1
Nitration Abs/cm	*ASTM D7624 >20	5.6	5.6	10.4
Sulfation Abs/.1mm	*ASTM D7415 >30	13.2	14.2	8.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm	*ASTM D7414 >25	8.7	8.8	10.9
Base Number (BN) mg KOH/g	ASTM D2896	7.7	7.4	12.6



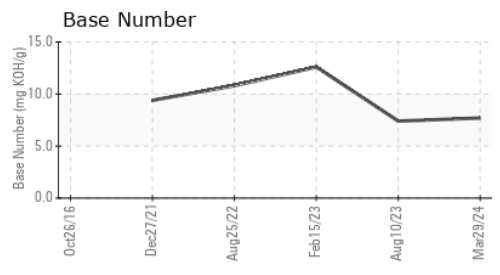
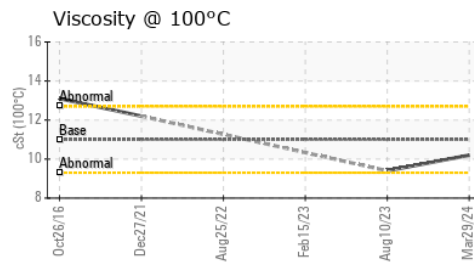
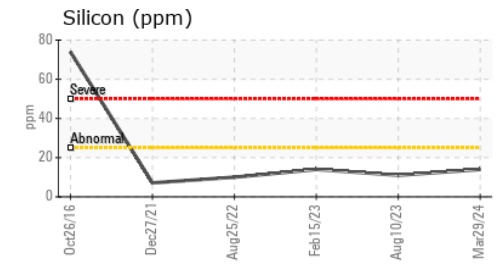
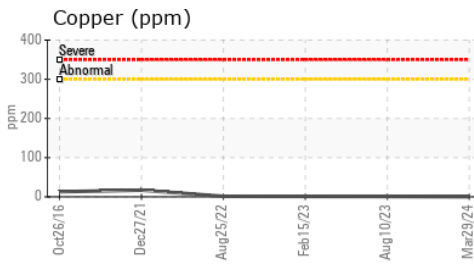
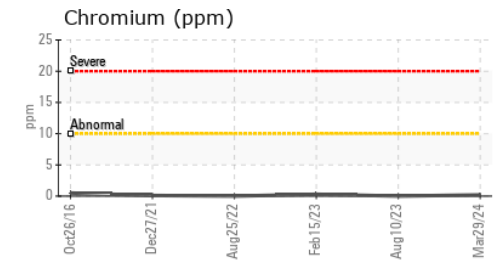
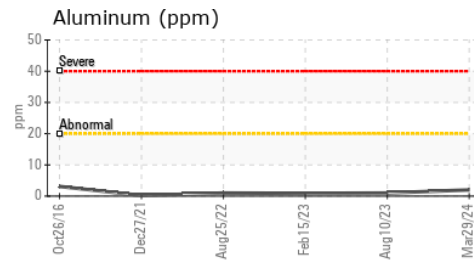
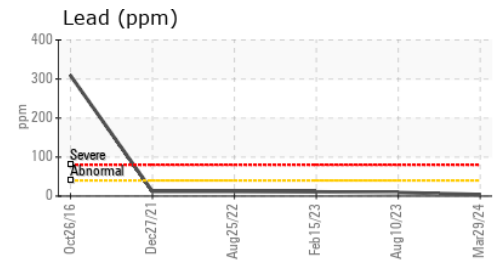
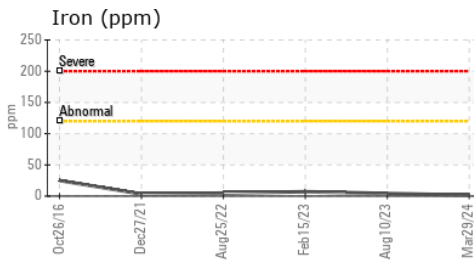
OIL ANALYSIS REPORT



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	▲ MODER	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	● MILKY
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	0.2%	▲ 0.2%
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.0	10.2	9.4

GRAPHS



Certificate L2367

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

Sample No. : DC0034967

Lab Number : 06151836

Unique Number : 10981914

Test Package : MOB 1 (Additional Tests: Glycol, KF, TBN)

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)

Received : 17 Apr 2024

Tested : 22 Apr 2024

Diagnosed : 22 Apr 2024 - Jonathan Hester

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