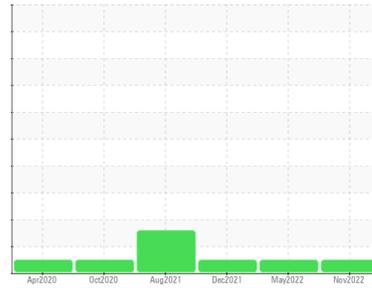




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

12

Component

Diesel Engine

Fluid

PURUS SYNTHETIC BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

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	RW0004059	RW0002828	RW0002392	
Sample Date	Client Info	07 Nov 2022	06 May 2022	09 Dec 2021	
Machine Age	mls	Client Info	1160735	1142320	1119923
Oil Age	mls	Client Info	16000	16000	16000
Oil Changed	Client Info	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >100	94	60	22
Chromium	ppm	ASTM D5185m >20	3	3	1
Nickel	ppm	ASTM D5185m >4	<1	0	0
Titanium	ppm	ASTM D5185m	<1	<1	1
Silver	ppm	ASTM D5185m >3	<1	<1	0
Aluminum	ppm	ASTM D5185m >20	2	2	1
Lead	ppm	ASTM D5185m >40	3	<1	<1
Copper	ppm	ASTM D5185m >330	39	127	6
Tin	ppm	ASTM D5185m >15	2	2	1
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	15	32	14
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	72	65	54
Manganese	ppm	ASTM D5185m	2	1	<1
Magnesium	ppm	ASTM D5185m	776	431	843
Calcium	ppm	ASTM D5185m	1456	1450	1286
Phosphorus	ppm	ASTM D5185m	1060	921	1048
Zinc	ppm	ASTM D5185m	1346	1106	1203
Sulfur	ppm	ASTM D5185m	3768	2688	2932

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	12	10	17
Sodium	ppm	ASTM D5185m	2	1	3
Potassium	ppm	ASTM D5185m >20	1	2	<1

INFRA-RED

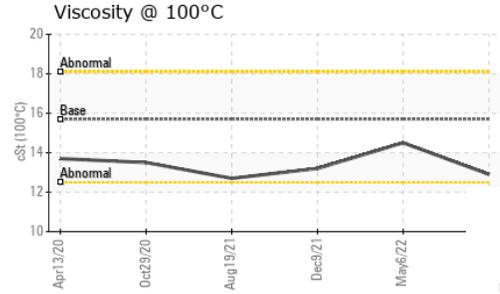
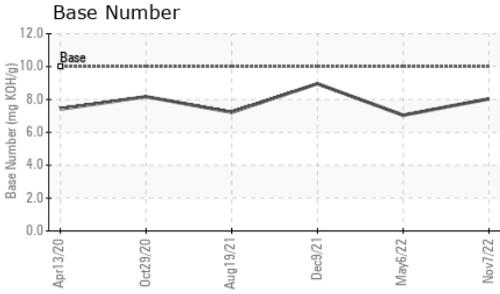
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	0.6	0.4	0.2
Nitration	Abs/cm	*ASTM D7624 >20	11.6	15.2	9.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.9	23.5	20.7

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.5	24.3	17.1
Base Number (BN)	mg KOH/g	ASTM D2896 10	8.04	7.04	8.96



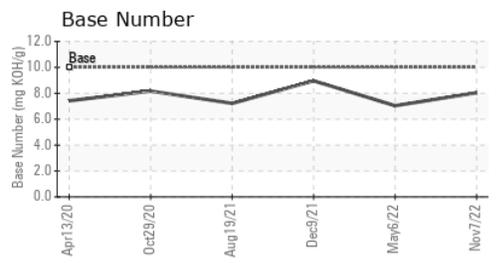
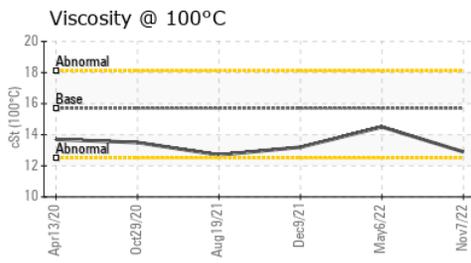
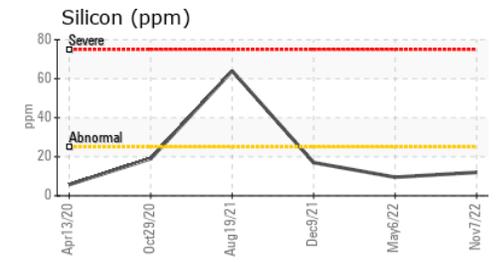
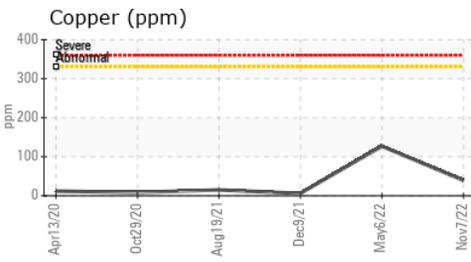
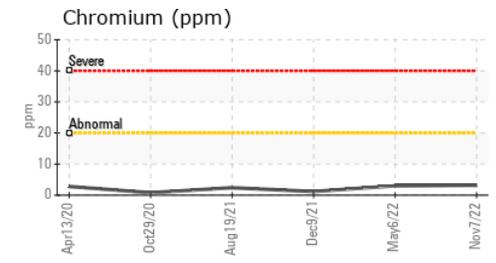
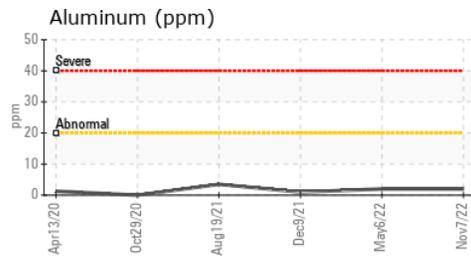
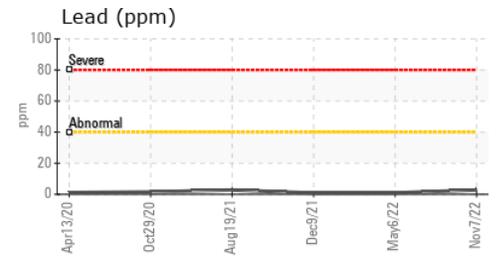
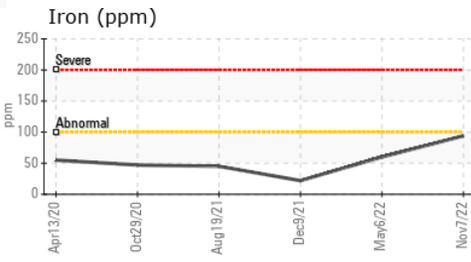
OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	15.7	12.9	14.5	13.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RW0004059 **Received** : 20 Jan 2023
Lab Number : 05745376 **Diagnosed** : 23 Jan 2023
Unique Number : 10299975 **Diagnostician** : Wes Davis
Test Package : MOB 2

BURNETTE FOODS INC
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 ELK RAPIDS, MI
 US 49629
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Certificate L2367
 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)