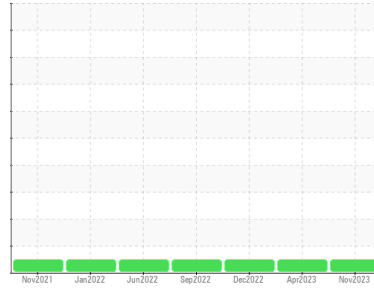


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
1031

Component
Diesel Engine

Fluid
PETRO CANADA SYNTHETIC BLEND SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: Normal change)

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		PCA0100600	PCA0073060	PCA0073059
Sample Date	Client Info		13 Nov 2023	08 Apr 2023	30 Dec 2022
Machine Age	mls	Client Info	979706	912609	882008
Oil Age	mls	Client Info	33524	30601	32393
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
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	57	46	46
Chromium	ppm	ASTM D5185m >20	<1	1	1
Nickel	ppm	ASTM D5185m >4	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	6	8	10
Lead	ppm	ASTM D5185m >40	<1	2	1
Copper	ppm	ASTM D5185m >330	2	2	2
Tin	ppm	ASTM D5185m >15	0	<1	<1
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m 50	61	63	61
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	944	975	957
Calcium	ppm	ASTM D5185m 1870	1031	1099	1062
Phosphorus	ppm	ASTM D5185m 930	941	1029	968
Zinc	ppm	ASTM D5185m 1020	1200	1265	1236
Sulfur	ppm	ASTM D5185m 2520	2642	2749	2913

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	5	6	6
Sodium	ppm	ASTM D5185m	<1	4	6
Potassium	ppm	ASTM D5185m >20	8	10	13

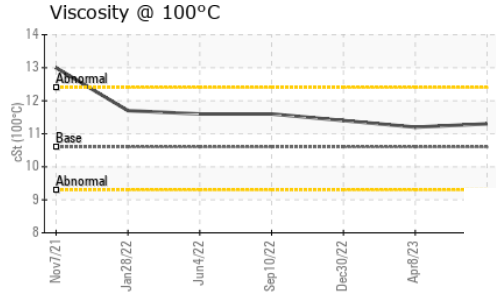
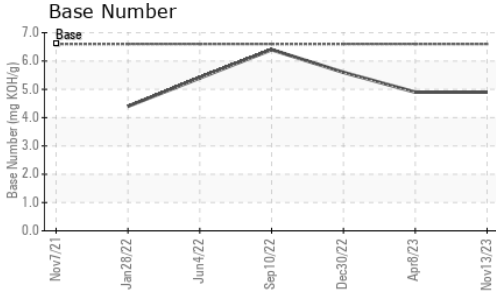
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1	0.9	0.8
Nitration	Abs/cm	*ASTM D7624 >20	10.8	11.8	11.2
Sulfation	Abs/.1mm	*ASTM D7415 >30	24.1	24.8	22.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.1	20.5	18.9
Base Number (BN)	mg KOH/g	ASTM D2896 6.6	4.9	4.9	5.6

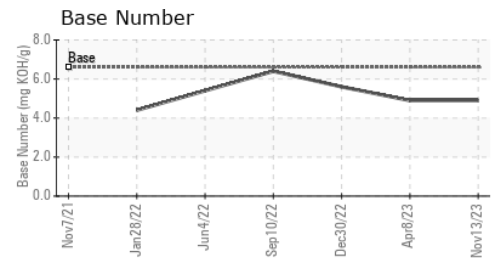
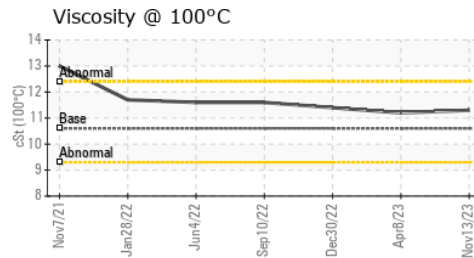
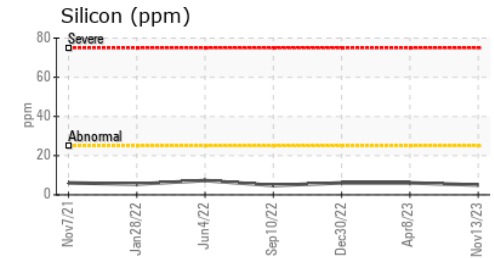
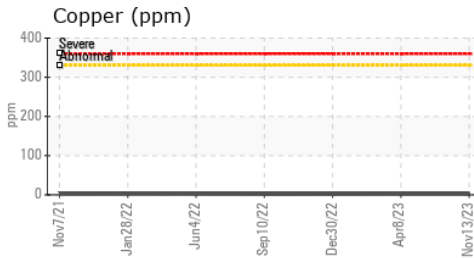
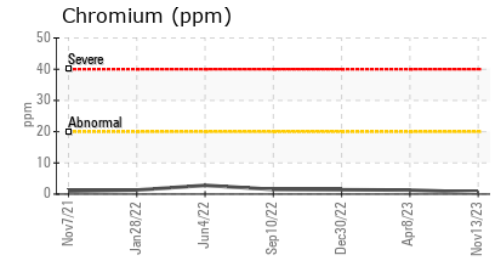
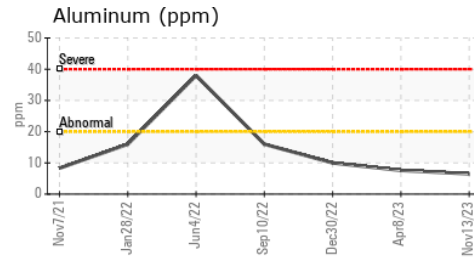
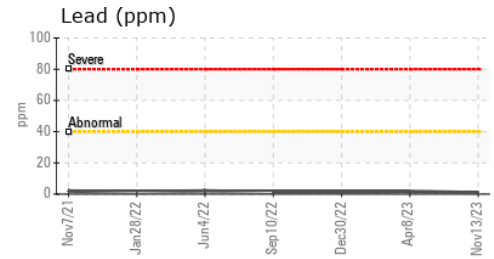
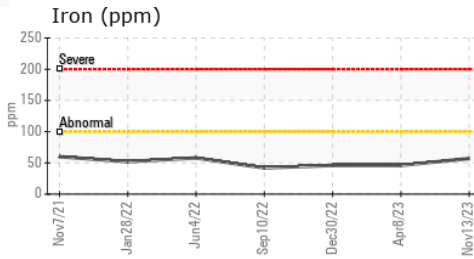
OIL ANALYSIS REPORT



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	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	10.6	11.3	11.2	11.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100600 **Received** : 17 Nov 2023
Lab Number : 06011251 **Diagnosed** : 21 Nov 2023
Unique Number : 10750395 **Diagnostician** : Sean Felton
Test Package : MOB 1 (Additional Tests: TBN)

SOARING EAGLE TRUCKING
 687 S ST RD 2
 HEBRON, IN
 US 46341
 Contact: Service Manager
 set1081@gmail.com

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)

T:
F: