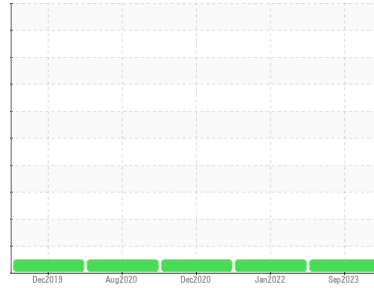


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
15 (S/N 1XKZDP9X4GJ119697)

Component
Diesel Engine

Fluid
PETRO CANADA DURON HP 15W40 (11 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	PCA0082895	PCA0058518	PCA0033640
Sample Date	Client Info	26 Sep 2023	05 Jan 2022	07 Dec 2020
Machine Age	hrs Client Info	0	8596	8596
Oil Age	hrs Client Info	0	8596	296
Oil Changed	Client Info	Not Chngd	N/A	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	8	9	9
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >4	<1	0	0
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m >3	0	<1	0
Aluminum	ppm ASTM D5185m >20	0	3	1
Lead	ppm ASTM D5185m >40	<1	<1	<1
Copper	ppm ASTM D5185m >330	1	1	1
Tin	ppm ASTM D5185m >15	<1	<1	<1
Antimony	ppm ASTM D5185m	---	0	0
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	<1	6	10
Barium	ppm ASTM D5185m	2	0	0
Molybdenum	ppm ASTM D5185m	73	62	63
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	1062	963	966
Calcium	ppm ASTM D5185m	1183	1115	1092
Phosphorus	ppm ASTM D5185m	1150	1068	1081
Zinc	ppm ASTM D5185m	1377	1205	1223
Sulfur	ppm ASTM D5185m	3761	2788	2622

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	5	6	4
Sodium	ppm ASTM D5185m	0	1	1
Potassium	ppm ASTM D5185m >20	2	2	2

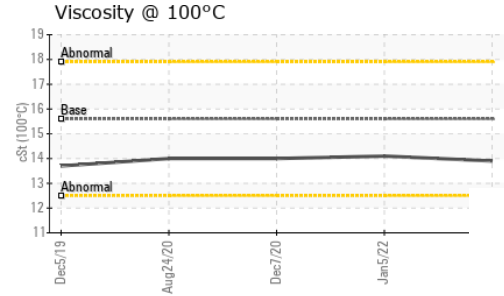
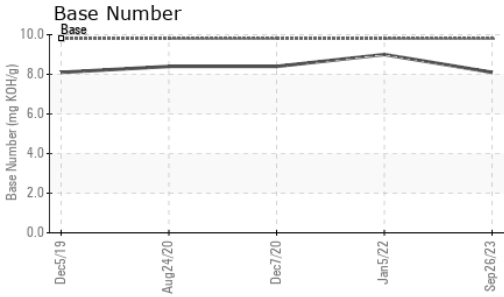
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.2	0.3	0.2
Nitration	Abs/cm *ASTM D7624 >20	7.4	9.0	8.7
Sulfation	Abs/.1mm *ASTM D7415 >30	18.5	20.2	19.8

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.6	17.2	16.4
Base Number (BN)	mg KOH/g ASTM D2896 9.8	8.1	9	8.4

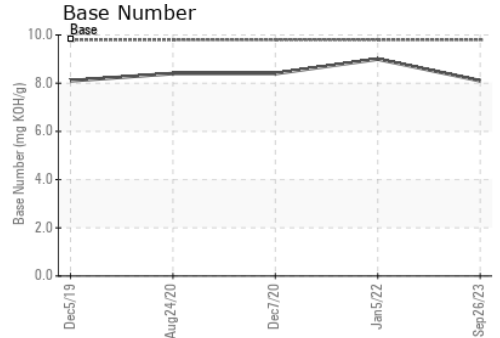
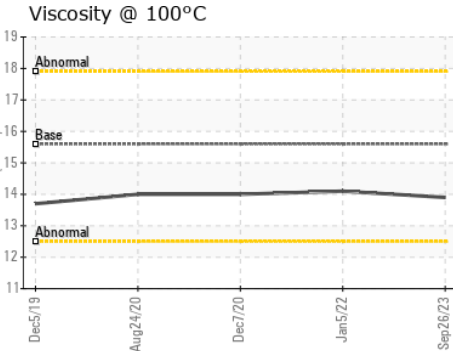
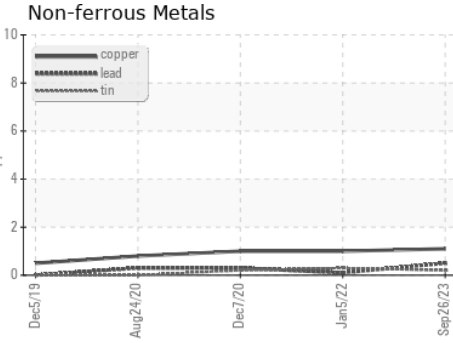
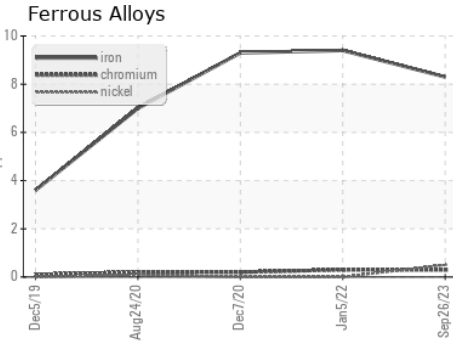
OIL ANALYSIS REPORT



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	15.6	13.9	14.1	14.0

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0082895 **Received** : 16 Oct 2023
Lab Number : **05979424** **Diagnosed** : 17 Oct 2023
Unique Number : 10696719 **Diagnostician** : Wes Davis
Test Package : FLEET

AVR - APPLE VALLEY READY MIX
 14698 GALAXY AVE
 APPLE VALLEY, MN
 US 55124
 Contact: COLE DAMBROTEN
 coledambroten@avrconcrete.com
 T:
 F:

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)