

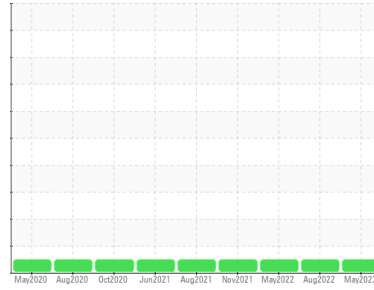
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
536
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON HP 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	PCA0069602	PCA0058356	PCA0058413
Sample Date	Client Info	15 May 2023	17 Aug 2022	19 May 2022
Machine Age	hrs	0	7041	7041
Oil Age	hrs	535	7041	7041
Oil Changed	Client Info	Not Chngd	N/A	N/A
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	14	13	14
Chromium	ppm ASTM D5185m >20	<1	<1	<1
Nickel	ppm ASTM D5185m >4	0	0	0
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m >3	0	<1	<1
Aluminum	ppm ASTM D5185m >20	8	7	6
Lead	ppm ASTM D5185m >40	0	2	<1
Copper	ppm ASTM D5185m >330	<1	1	1
Tin	ppm ASTM D5185m >15	<1	<1	<1
Antimony	ppm ASTM D5185m	---	---	---
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	4	8	7
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	68	64	65
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	1057	911	1013
Calcium	ppm ASTM D5185m	1224	1200	1209
Phosphorus	ppm ASTM D5185m	1162	1029	1154
Zinc	ppm ASTM D5185m	1402	1265	1364
Sulfur	ppm ASTM D5185m	4011	3635	2898

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	6	10	4
Sodium	ppm ASTM D5185m	2	2	0
Potassium	ppm ASTM D5185m >20	12	12	11

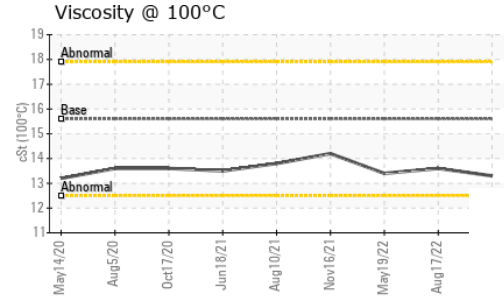
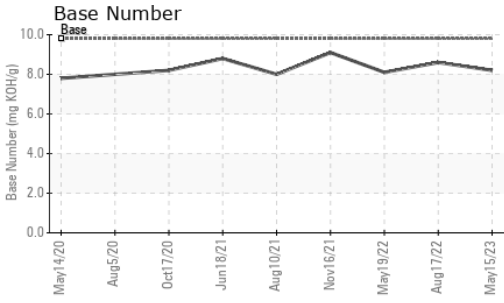
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.3	0.4	0.3
Nitration	Abs/cm *ASTM D7624 >20	8.8	10.1	8.5
Sulfation	Abs/.1mm *ASTM D7415 >30	19.9	22.2	19.5

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.7	18.9	16.1
Base Number (BN)	mg KOH/g ASTM D2896 9.8	8.2	8.6	8.1

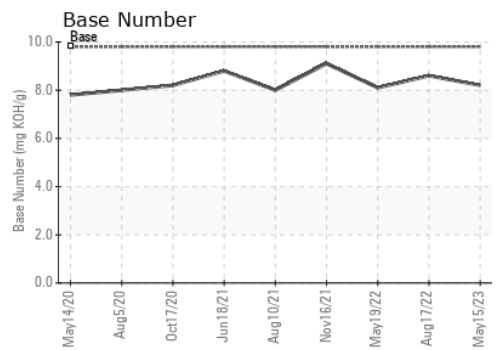
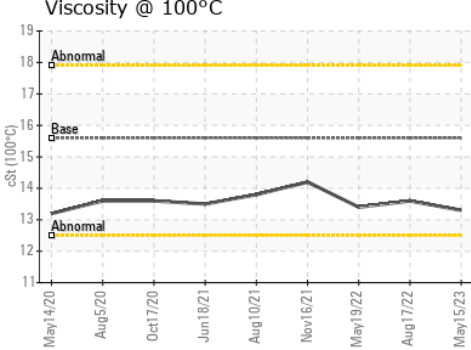
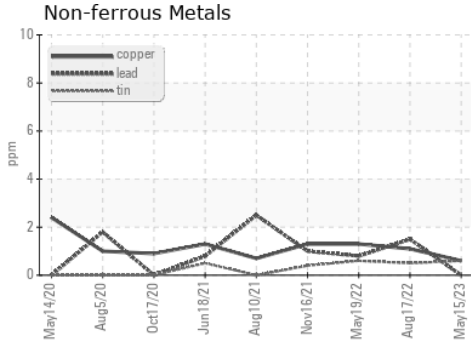
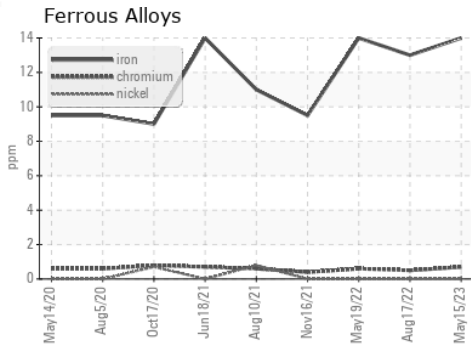
OIL ANALYSIS REPORT



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	13.3	13.6	13.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0069602 **Received** : 25 Aug 2023
Lab Number : **05934710** **Diagnosed** : 25 Aug 2023
Unique Number : 10619981 **Diagnostician** : Wes Davis
Test Package : FLEET

AVR - APPLE VALLEY READY MIX
 14698 GALAXY AVE
 APPLE VALLEY, MN
 US 55124
 Contact: senia zimmer
 avrconcrete.senia@gmail.com
 T: (952)953-2992
 F: (952)953-2994

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)