OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Machine Id
PETRO CANADA DURON GEO LD 15W40 - BATCH 235693
Component
New (Unused) Oil
Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation
This is a baseline read-out on the submitted sample. Please note that this is a corrected copy for diagnostic comment updates.

Contamination
There is a trace of moisture present in the oil. Suspect actual water content lower than reported due to additive interference with test.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA05987090**	---	---
Sample Date		Client Info		**28 Aug 2023**	---	---
Machine Age	mls	Client Info		**0**	---	---
Oil Age	mls	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m		**1**	---	---
Chromium	ppm	ASTM D5185m		**<1**	---	---
Nickel	ppm	ASTM D5185m		**0**	---	---
Titanium	ppm	ASTM D5185m		**0**	---	---
Silver	ppm	ASTM D5185m		**0**	---	---
Aluminum	ppm	ASTM D5185m		**2**	---	---
Lead	ppm	ASTM D5185m		**0**	---	---
Copper	ppm	ASTM D5185m		**0**	---	---
Tin	ppm	ASTM D5185m		**0**	---	---
Vanadium	ppm	ASTM D5185m		**0**	---	---
Cadmium	ppm	ASTM D5185m		**0**	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**60**	---	---
Barium	ppm	ASTM D5185m		**0**	---	---
Molybdenum	ppm	ASTM D5185m		**48**	---	---
Manganese	ppm	ASTM D5185m		**0**	---	---
Magnesium	ppm	ASTM D5185m		**492**	---	---
Calcium	ppm	ASTM D5185m		**1455**	---	---
Phosphorus	ppm	ASTM D5185m		**775**	---	---
Zinc	ppm	ASTM D5185m		**878**	---	---
Sulfur	ppm	ASTM D5185m		**3010**	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m		**6**	---	---
Sodium	ppm	ASTM D5185m		**2**	---	---
Potassium	ppm	ASTM D5185m	>20	**1**	---	---
Water	%	ASTM D6304		▲ **0.200**	---	---
ppm Water	ppm	ASTM D6304		▲ **2000**	---	---

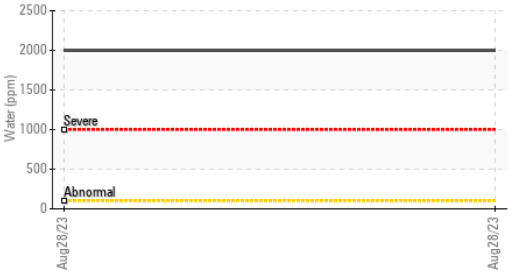
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		**0**	---	---
Nitration	Abs/cm	*ASTM D7624		**5.4**	---	---
Sulfation	Abs/.1mm	*ASTM D7415		**18.1**	---	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414		**14.7**	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		**1.20**	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		**8.80**	---	---

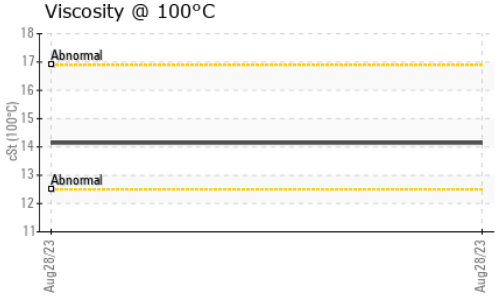
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

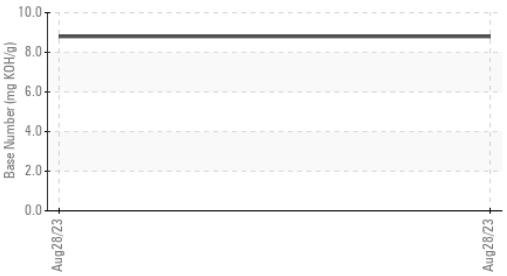
Water (KF)



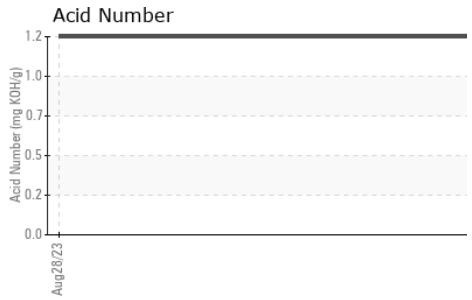
Viscosity @ 100°C



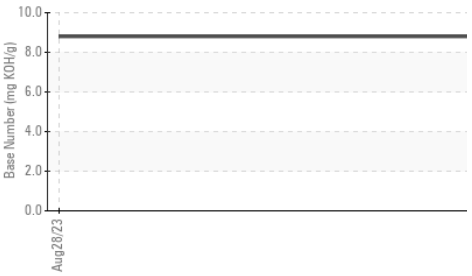
Base Number



Acid Number



Base Number



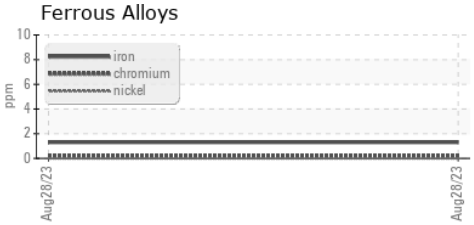
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	---	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	---	---
Precipitate	scalar	*Visual	NONE	**NONE**	---	---
Silt	scalar	*Visual	NONE	**NONE**	---	---
Debris	scalar	*Visual	NONE	**LIGHT**	---	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	---	---
Appearance	scalar	*Visual	NORML	**NORML**	---	---
Odor	scalar	*Visual	NORML	**NORML**	---	---
Emulsified Water	scalar	*Visual		▲ **0.2%**	---	---
Free Water	scalar	*Visual		**NEG**	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		**108.3**	---	---
Visc @ 100°C	cSt	ASTM D445		**14.14**	---	---
Viscosity Index (VI)	Scale	ASTM D2270		**132**	---	---

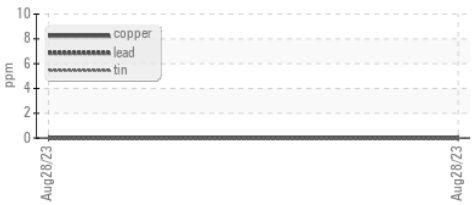
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				*no image*	*no image*
Bottom				*no image*	*no image*

GRAPHS

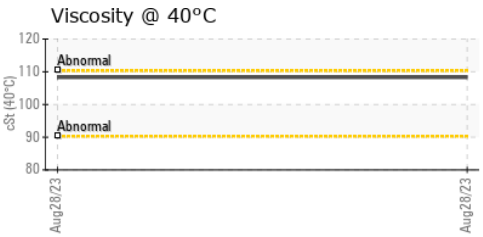
Ferrous Alloys



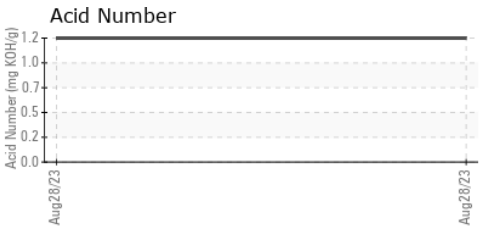
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA05987090 **Received** : 23 Oct 2023
Lab Number : 05987090 **Diagnosed** : 23 Oct 2023
Unique Number : 10709752 **Diagnostician** : Doug Bogart
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, TBN-Va)

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)

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