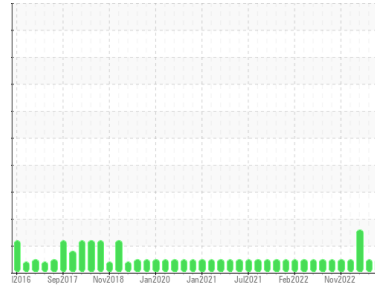


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Machine Id
2507
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (10 GAL)

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

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		PCA0101734	PCA0077275	PCA0077280
Sample Date	Client Info		07 Aug 2023	24 May 2023	19 Apr 2023
Machine Age	hrs	Client Info	757	197	21312
Oil Age	hrs	Client Info	651	197	651
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >165	19	23	8
Chromium	ppm	ASTM D5185m >5	<1	1	0
Nickel	ppm	ASTM D5185m >4	0	<1	0
Titanium	ppm	ASTM D5185m >2	0	<1	0
Silver	ppm	ASTM D5185m >2	<1	<1	0
Aluminum	ppm	ASTM D5185m >20	1	5	3
Lead	ppm	ASTM D5185m >150	16	2	0
Copper	ppm	ASTM D5185m >90	5	<1	0
Tin	ppm	ASTM D5185m >5	1	<1	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 0	18	139	172
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 60	76	83	74
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 1010	878	808	741
Calcium	ppm	ASTM D5185m 1070	1228	1436	1272
Phosphorus	ppm	ASTM D5185m 1150	1018	1163	1022
Zinc	ppm	ASTM D5185m 1270	1245	1382	1286
Sulfur	ppm	ASTM D5185m 2060	3561	4056	3579

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	31	60	▲ 38
Sodium	ppm	ASTM D5185m	19	21	6
Potassium	ppm	ASTM D5185m >20	14	6	<1

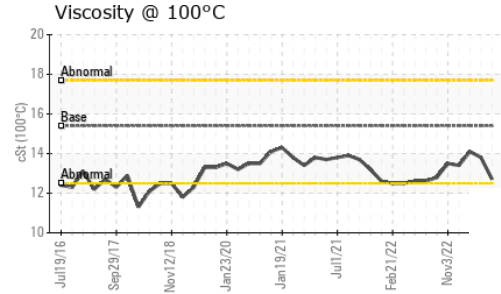
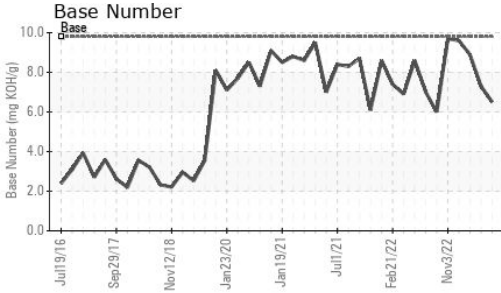
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >7.5	0.7	0.4	0.1
Nitration	Abs/cm	*ASTM D7624 >20	10.1	7.5	4.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.2	20.3	18.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	16.7	15.4	13.3
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	6.5	7.3	8.9

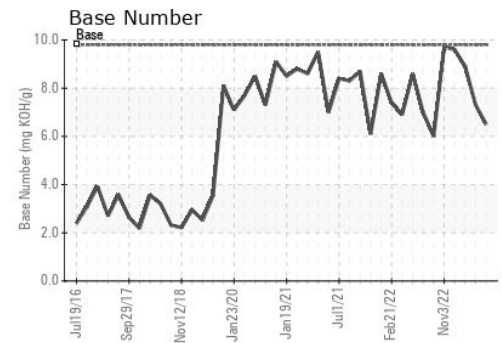
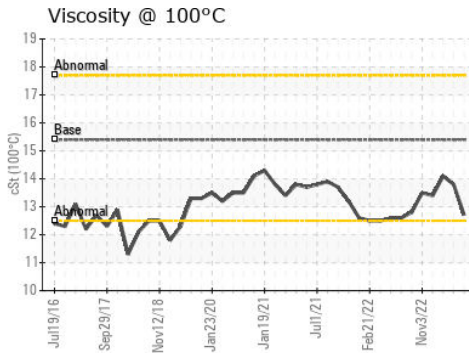
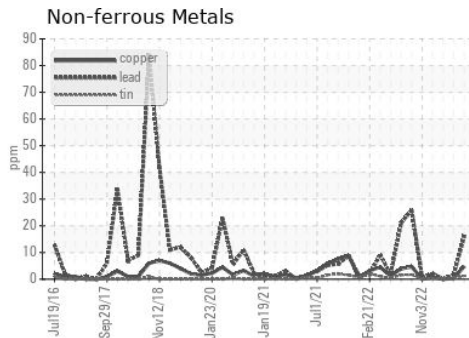
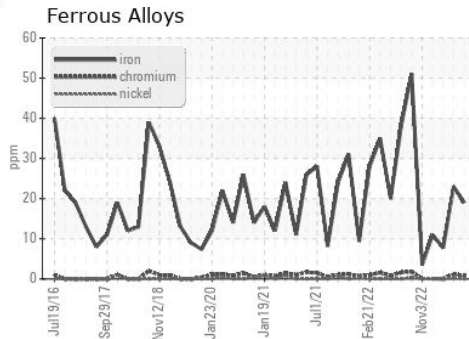
OIL ANALYSIS REPORT



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	15.4	12.7	13.8	14.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0101734 **Received** : 09 Aug 2023
Lab Number : **05919661** **Diagnosed** : 09 Aug 2023
Unique Number : 10591575 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 002 - Vance-Granville
 241 Vanco Mill Rd
 Henderson, NC
 US 27537
 Contact: Cameron King
 cameron.king@gflenv.com
 T: (252)438-5333
 F: (252)431-1635

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)