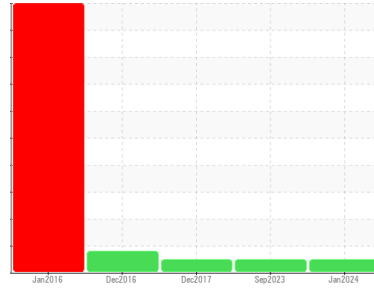


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
FUEL
 Machine Id
318
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (17 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

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		PCA0109980	PCA0098688	PCA60534965
Sample Date	Client Info		22 Jan 2024	01 Sep 2023	18 Dec 2017
Machine Age	mls	Client Info	300328	293419	110230
Oil Age	mls	Client Info	6000	6000	109000
Oil Changed	Client Info		Changed	Changed	N/A
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	14	5	13
Chromium	ppm	ASTM D5185m >20	<1	<1	0
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	4	0	---
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >20	6	3	7
Lead	ppm	ASTM D5185m >40	0	0	1
Copper	ppm	ASTM D5185m >330	<1	0	1
Tin	ppm	ASTM D5185m >15	0	0	0
Antimony	ppm	ASTM D5185m	---	---	1
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	9	5	5
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 50	59	57	62
Manganese	ppm	ASTM D5185m 0	0	<1	---
Magnesium	ppm	ASTM D5185m 950	980	962	908
Calcium	ppm	ASTM D5185m 1050	1175	1036	1161
Phosphorus	ppm	ASTM D5185m 995	1069	1036	949
Zinc	ppm	ASTM D5185m 1180	1257	1264	1138
Sulfur	ppm	ASTM D5185m 2600	3840	3142	2958

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	3	2	3
Sodium	ppm	ASTM D5185m	3	1	4
Potassium	ppm	ASTM D5185m >20	2	<1	5

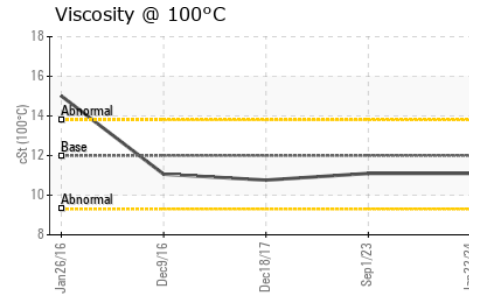
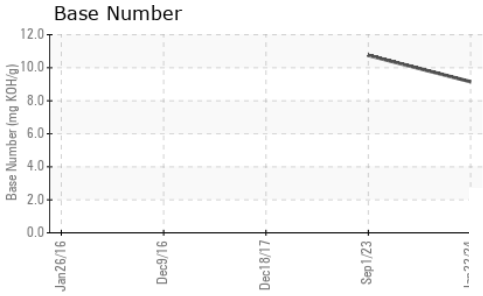
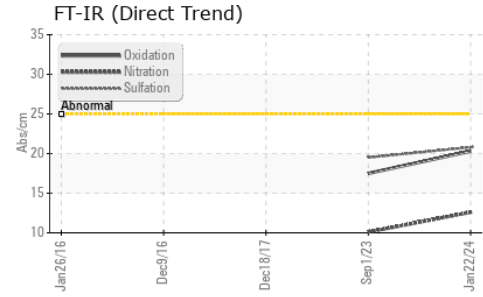
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.2	0.8	1.1
Nitration	Abs/cm	*ASTM D7624 >20	12.6	10.1	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.8	19.5	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	20.3	17.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.15	10.75	---

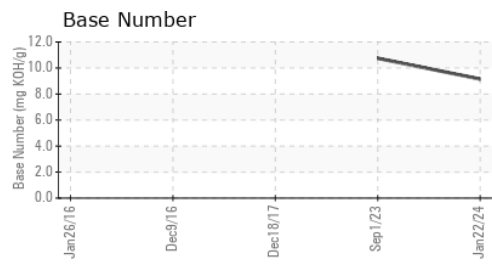
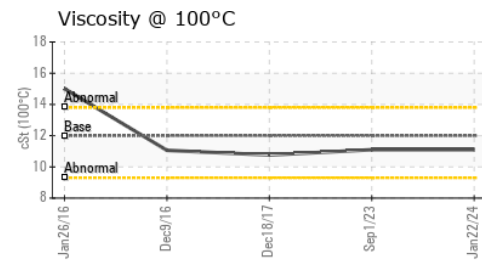
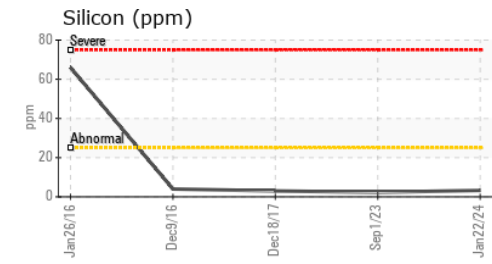
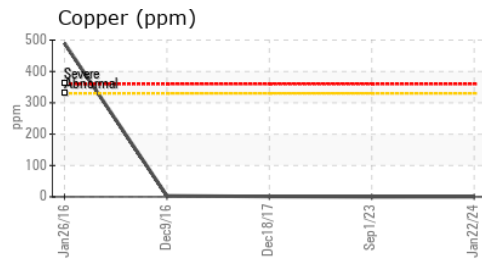
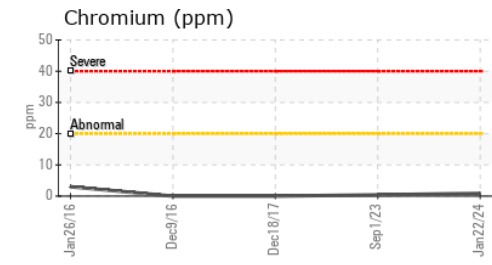
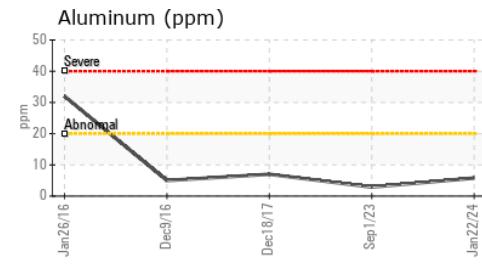
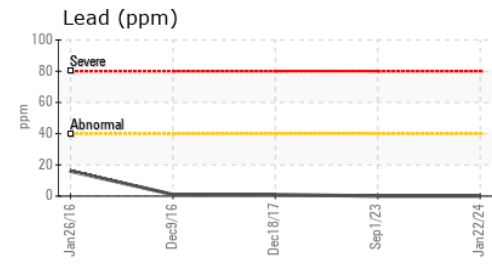
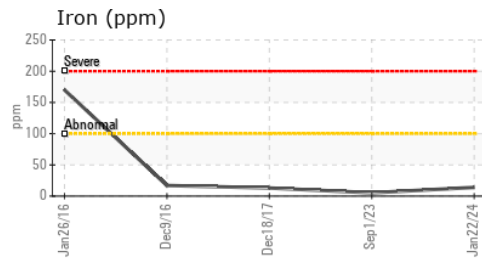
OIL ANALYSIS REPORT



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	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.1	10.76

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0109980
Lab Number : 06137636
Unique Number : 10957101
Test Package : MOB 2

Received : 03 Apr 2024
Tested : 04 Apr 2024
Diagnosed : 04 Apr 2024 - Wes Davis

DENNIS K BURKE INC - INTERNAL SAMPLES
 555 CONSTITUTION DR
 TAUNTON, MA
 US 02780
 Contact: GREG DUNKER

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: (617)889-6422