

OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
KENWORTH 42

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

Light fuel dilution occurring.

▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	PCA0105128	---	---
Sample Date	Client Info	08 Mar 2024	---	---
Machine Age	mls	Client Info	77088	---
Oil Age	mls	Client Info	20000	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	---
Glycol	WC Method		NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>100	20	---
Chromium	ppm	ASTM D5185m	>20	1	---
Nickel	ppm	ASTM D5185m	>4	<1	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>3	0	---
Aluminum	ppm	ASTM D5185m	>20	5	---
Lead	ppm	ASTM D5185m	>40	<1	---
Copper	ppm	ASTM D5185m	>330	2	---
Tin	ppm	ASTM D5185m	>15	1	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	0	---
Barium	ppm	ASTM D5185m	0	1	---
Molybdenum	ppm	ASTM D5185m	60	61	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m	1010	894	---
Calcium	ppm	ASTM D5185m	1070	1199	---
Phosphorus	ppm	ASTM D5185m	1150	951	---
Zinc	ppm	ASTM D5185m	1270	1186	---
Sulfur	ppm	ASTM D5185m	2060	3078	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	8	---
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	14	---
Fuel	%	ASTM D3524	>5	▲ 3.7	---

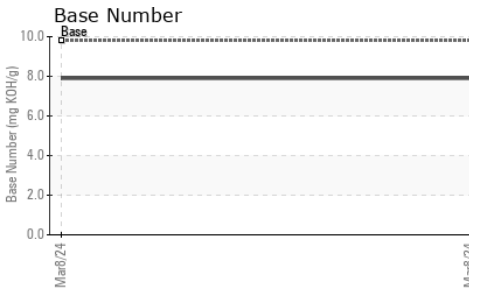
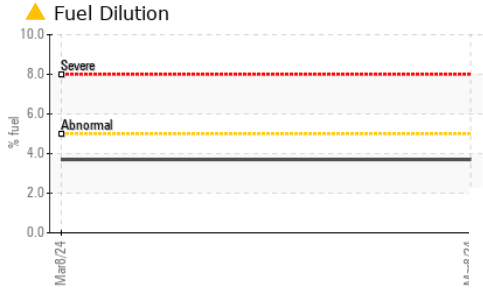
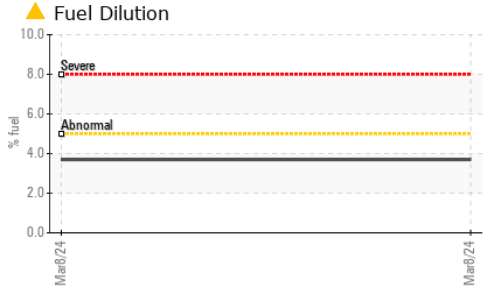
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	---
Nitration	Abs/cm	*ASTM D7624	>20	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.4	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.4	---
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.90	---

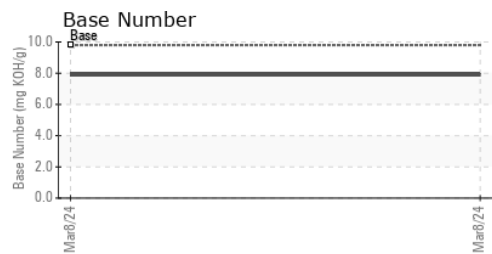
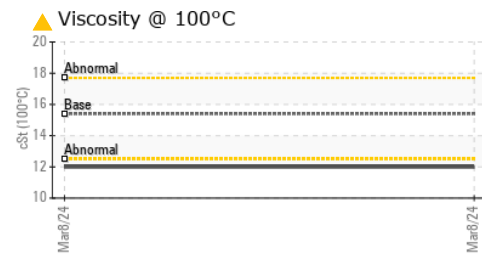
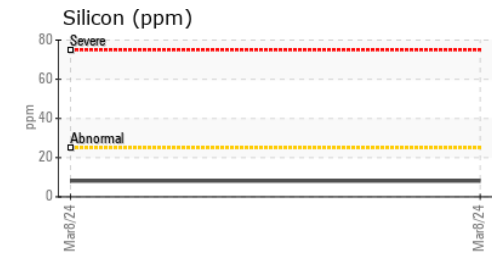
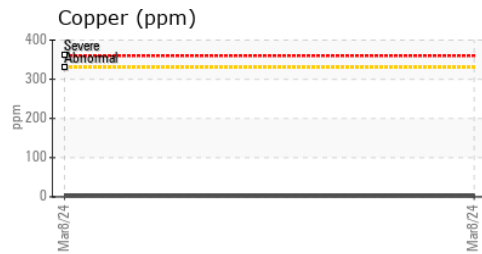
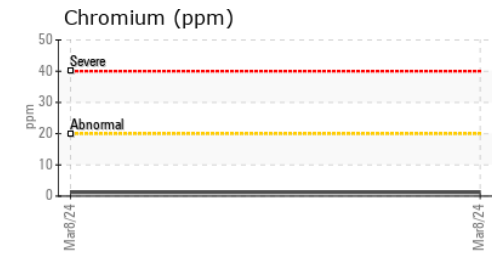
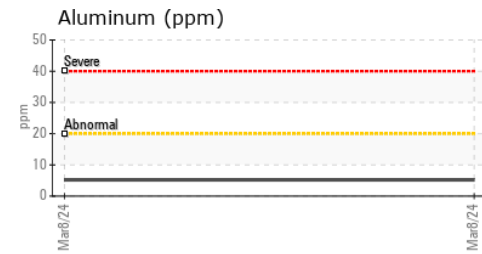
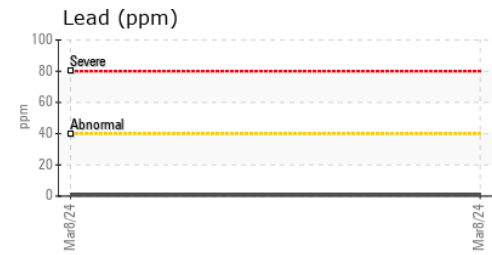
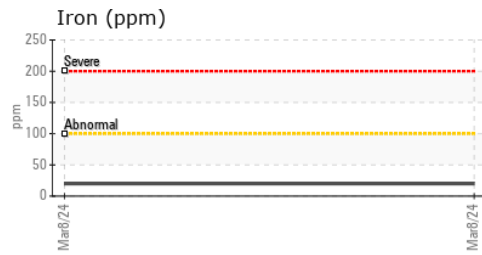
OIL ANALYSIS REPORT



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	15.4	▲ 12.0	---

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105128 **Received** : 25 Mar 2024
Lab Number : 06128831 **Tested** : 28 Mar 2024
Unique Number : 10942982 **Diagnosed** : 28 Mar 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

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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)