

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(TEMP) Preferred Service-Tractor
 Machine Id
[Preferred Service-Tractor] 192A32042B
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON UHP 5W30 (36 QTS)

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		PCA0123673	PCA0115779	---
Sample Date	Client Info		15 May 2024	26 Jan 2024	---
Machine Age	mls	Client Info	31255	15981	---
Oil Age	mls	Client Info	15274	15981	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<1.0	<1.0	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	30	42	---
Chromium	ppm	ASTM D5185m >20	<1	<1	---
Nickel	ppm	ASTM D5185m >2	0	<1	---
Titanium	ppm	ASTM D5185m	<1	0	---
Silver	ppm	ASTM D5185m >2	<1	<1	---
Aluminum	ppm	ASTM D5185m >25	8	19	---
Lead	ppm	ASTM D5185m >40	<1	0	---
Copper	ppm	ASTM D5185m >330	194	254	---
Tin	ppm	ASTM D5185m >15	3	5	---
Vanadium	ppm	ASTM D5185m	0	0	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	34	216	---
Barium	ppm	ASTM D5185m 0	0	2	---
Molybdenum	ppm	ASTM D5185m 64	68	128	---
Manganese	ppm	ASTM D5185m 0	1	4	---
Magnesium	ppm	ASTM D5185m 1160	1083	726	---
Calcium	ppm	ASTM D5185m 820	923	1306	---
Phosphorus	ppm	ASTM D5185m 1160	972	660	---
Zinc	ppm	ASTM D5185m 1260	1272	878	---
Sulfur	ppm	ASTM D5185m 3000	3265	2190	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	15	65	---
Sodium	ppm	ASTM D5185m	4	2	---
Potassium	ppm	ASTM D5185m >20	25	69	---

INFRA-RED

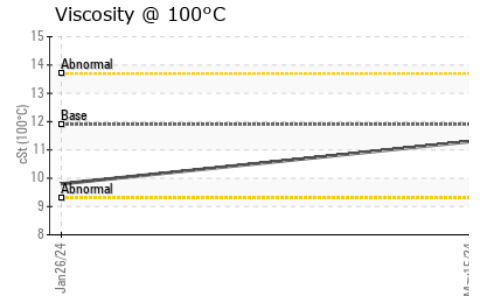
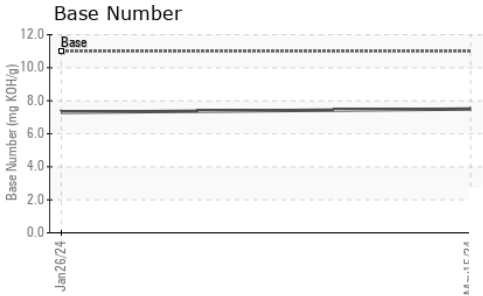
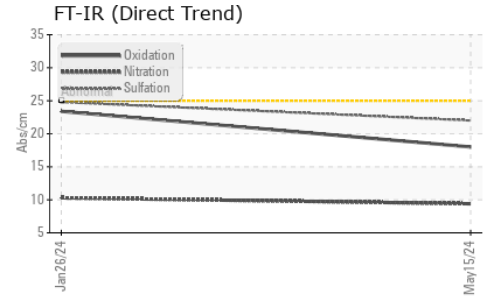
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	1.1	0.6	---
Nitration	Abs/cm	*ASTM D7624 >20	9.4	10.3	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	22.0	24.8	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.0	23.4	---
Base Number (BN)	mg KOH/g	ASTM D2896 11.0	7.5	7.3	---



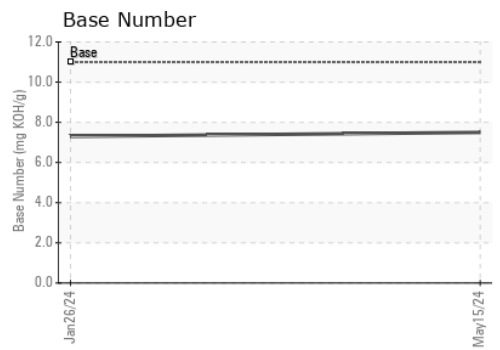
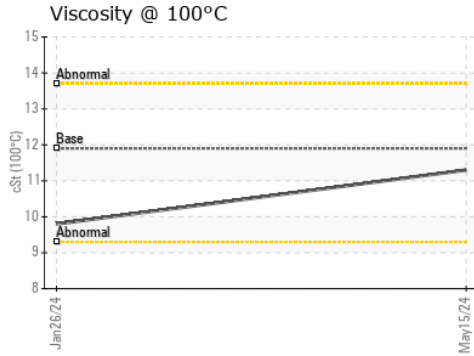
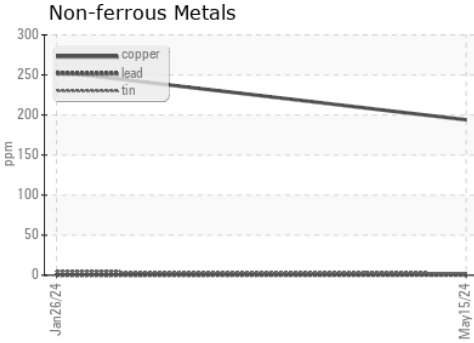
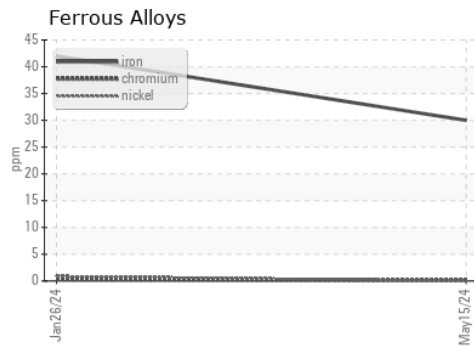
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PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
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	11.9	11.3	9.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0123673
Lab Number : 06188897
Unique Number : 11045649
Test Package : FLEET

Received : 23 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Wes Davis

Transervice - Shop 1920 - Preferred Service
 1955 W. North Avenue, Bldg K
 Melrose Park, IL
 US 60160

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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