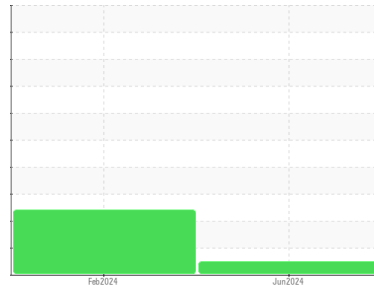


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(TEMP) Preferred Service-Tractor
 Machine Id
[Preferred Service-Tractor] 192A32047B
 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

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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			PCA0126898	PCA0116671	---
Sample Date	Client Info			29 Jun 2024	29 Feb 2024	---
Machine Age	mls	Client Info		33576	16518	---
Oil Age	mls	Client Info		17058	16518	---
Oil Changed	Client Info			Not Changed	Changed	---
Sample Status				NORMAL	ABNORMAL	---

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	55	71	---
Chromium	ppm	ASTM D5185m	>20	1	1	---
Nickel	ppm	ASTM D5185m	>2	2	6	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>2	<1	1	---
Aluminum	ppm	ASTM D5185m	>25	17	29	---
Lead	ppm	ASTM D5185m	>40	0	<1	---
Copper	ppm	ASTM D5185m	>330	179	322	---
Tin	ppm	ASTM D5185m	>15	<1	8	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		0	<1	---

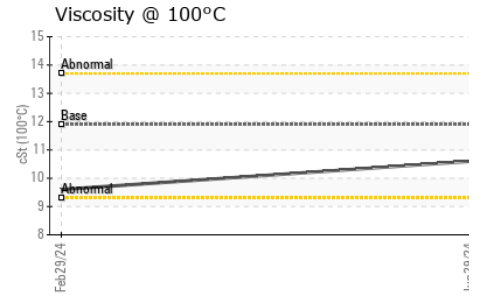
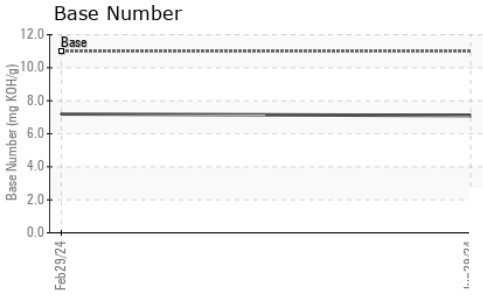
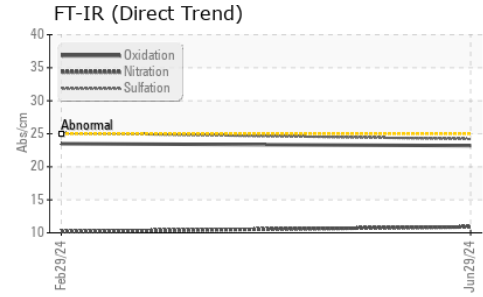
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	72	359	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	64	99	183	---
Manganese	ppm	ASTM D5185m	0	4	8	---
Magnesium	ppm	ASTM D5185m	1160	867	1033	---
Calcium	ppm	ASTM D5185m	820	1283	2067	---
Phosphorus	ppm	ASTM D5185m	1160	800	1098	---
Zinc	ppm	ASTM D5185m	1260	971	1305	---
Sulfur	ppm	ASTM D5185m	3000	2655	3929	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	42	106	---
Sodium	ppm	ASTM D5185m		9	6	---
Potassium	ppm	ASTM D5185m	>20	49	87	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	---
Nitration	Abs/cm	*ASTM D7624	>20	10.9	10.2	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.2	25.1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.2	23.5	---
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	7.1	7.2	---

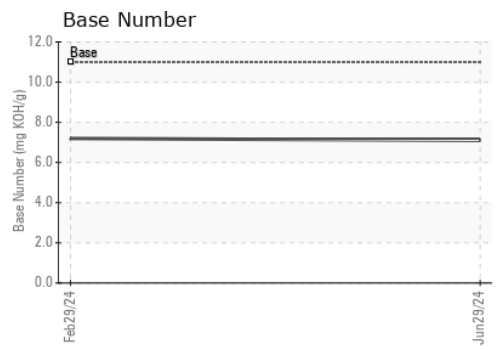
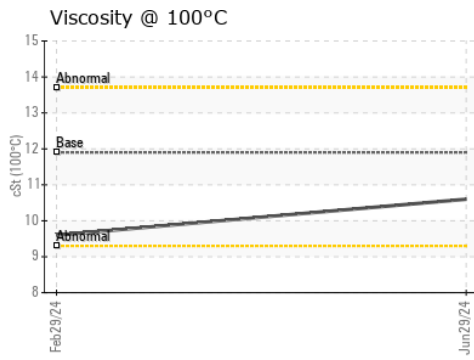
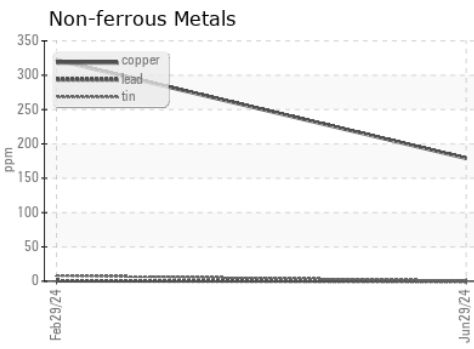
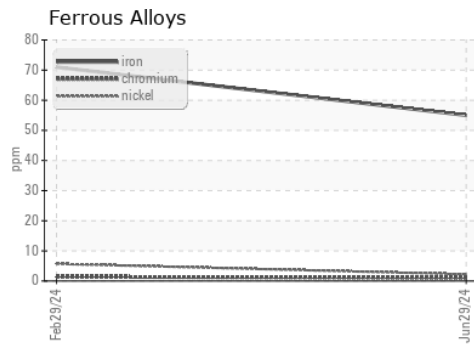
OIL ANALYSIS REPORT



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	10.6	9.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0126898 **Received** : 05 Jul 2024
Lab Number : **06228346** **Tested** : 08 Jul 2024
Unique Number : 11111839 **Diagnosed** : 08 Jul 2024 - Wes Davis
Test Package : FLEET

Transervice - Shop 1920 - Preferred Service
 1955 W. North Avenue, Bldg K
 Melrose Park, IL
 US 60160
 Contact: Tom Lindeman
 tlindemann@transervice.com
 T: (630)376-8946
 F:

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)