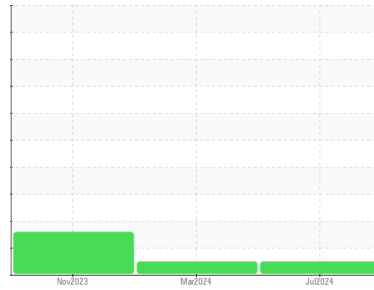


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(TEMP) Preferred Service-Tractor
 Machine Id
[Preferred Service-Tractor] 192A32037B
 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		PCA0126894	PCA0120225	PCA0112167
Sample Date	Client Info		06 Jul 2024	28 Mar 2024	25 Nov 2023
Machine Age	mls	Client Info	70552	48760	24131
Oil Age	mls	Client Info	48760	24629	24128
Oil Changed	Client Info		Changed	Not Changd	Changed
Sample Status			NORMAL	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<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	51	38	36
Chromium	ppm	ASTM D5185m	>20	1	2	<1
Nickel	ppm	ASTM D5185m	>2	2	4	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>25	14	15	25
Lead	ppm	ASTM D5185m	>40	<1	<1	2
Copper	ppm	ASTM D5185m	>330	169	267	261
Tin	ppm	ASTM D5185m	>15	3	4	5
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	<1	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	11	31	234
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	64	69	87	118
Manganese	ppm	ASTM D5185m	0	1	2	4
Magnesium	ppm	ASTM D5185m	1160	1091	1321	676
Calcium	ppm	ASTM D5185m	820	956	1128	1497
Phosphorus	ppm	ASTM D5185m	1160	1032	1188	708
Zinc	ppm	ASTM D5185m	1260	1329	1553	808
Sulfur	ppm	ASTM D5185m	3000	2625	3614	2082

CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	13	20	▲ 53
Sodium	ppm	ASTM D5185m		5	6	7
Potassium	ppm	ASTM D5185m	>20	40	44	64

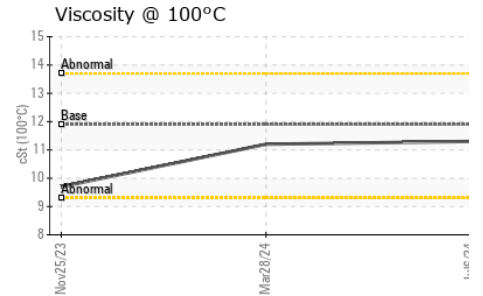
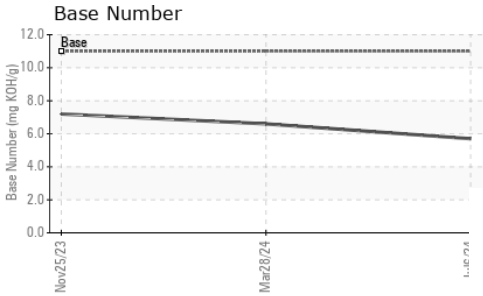
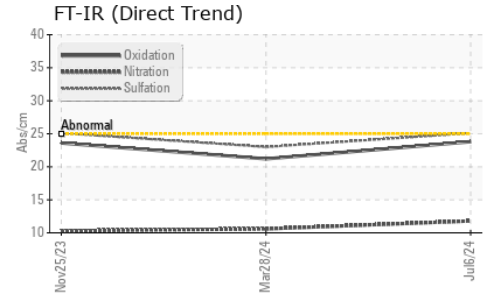
INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.9	0.6	0.5
Nitration	Abs/cm	*ASTM D7624	>20	11.8	10.6	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	23.0	25.1

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	23.8	21.2	23.6
Base Number (BN)	mg KOH/g	ASTM D2896	11.0	5.7	6.6	7.2

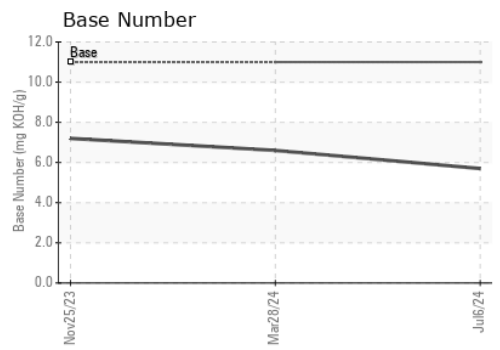
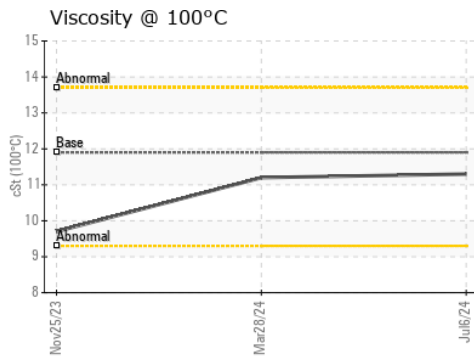
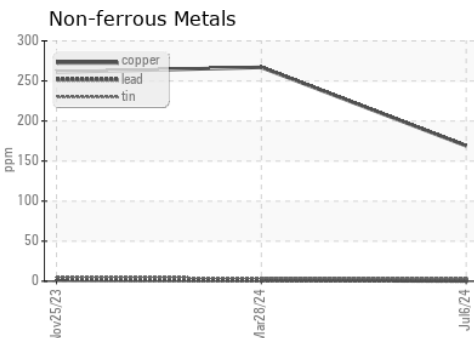
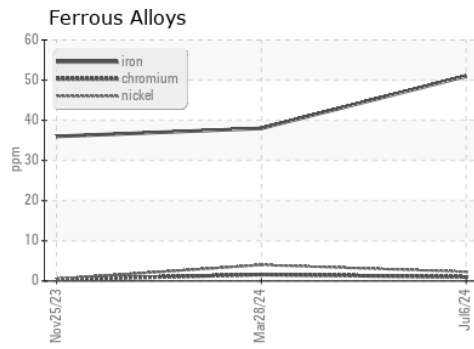
OIL ANALYSIS REPORT



PARAMETER	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	11.9	11.3	11.2

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0126894 **Received** : 12 Jul 2024
Lab Number : 06234517 **Tested** : 12 Jul 2024
Unique Number : 11123351 **Diagnosed** : 12 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)