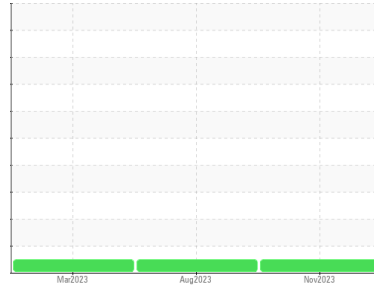


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(34252Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A62500
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 10W30 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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	PCA0105911	PCA0091549	PCA0091469
Sample Date	Client Info	16 Nov 2023	07 Aug 2023	16 Mar 2023
Machine Age	mls Client Info	161818	143271	114155
Oil Age	mls Client Info	114155	25000	50000
Oil Changed	Client Info	N/A	Oil Added	Changed
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 >110	30	19	37
Chromium	ppm ASTM D5185m >4	<1	<1	<1
Nickel	ppm ASTM D5185m >2	<1	0	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >2	0	<1	0
Aluminum	ppm ASTM D5185m >25	18	14	25
Lead	ppm ASTM D5185m >45	<1	0	<1
Copper	ppm ASTM D5185m >85	4	5	4
Tin	ppm ASTM D5185m >4	1	0	1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	0	0	2
Barium	ppm ASTM D5185m 0	0	0	<1
Molybdenum	ppm ASTM D5185m 50	63	60	62
Manganese	ppm ASTM D5185m 0	<1	<1	<1
Magnesium	ppm ASTM D5185m 950	994	956	910
Calcium	ppm ASTM D5185m 1050	1155	1077	1121
Phosphorus	ppm ASTM D5185m 995	1081	1018	1027
Zinc	ppm ASTM D5185m 1180	1291	1252	1240
Sulfur	ppm ASTM D5185m 2600	2393	3390	2786

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >30	8	6	7
Sodium	ppm ASTM D5185m	2	1	0
Potassium	ppm ASTM D5185m >20	53	38	64

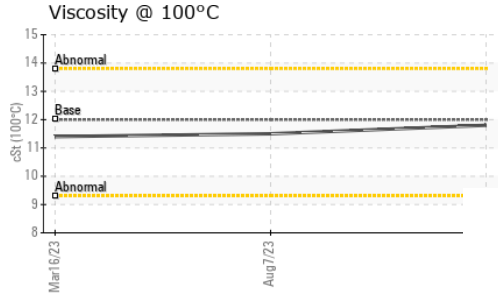
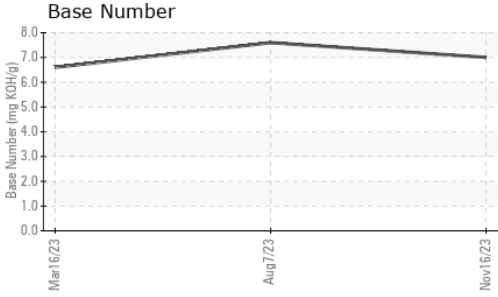
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.9	0.7	1
Nitration	Abs/cm *ASTM D7624 >20	9.9	9.7	10.6
Sulfation	Abs/.1mm *ASTM D7415 >30	22.3	20.7	23.3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.9	17.3	20.0
Base Number (BN)	mg KOH/g ASTM D2896	7.0	7.6	6.6

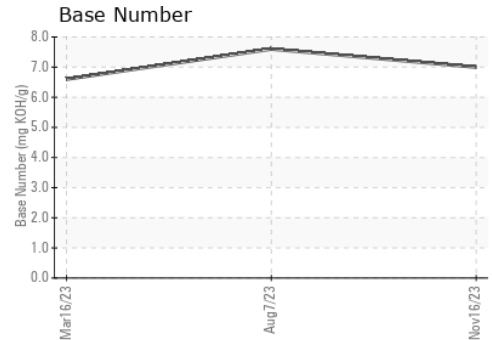
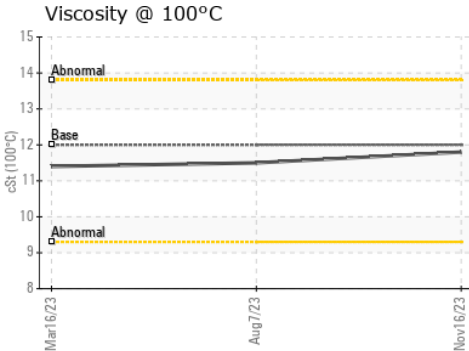
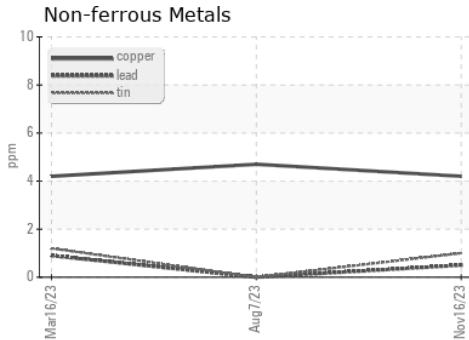
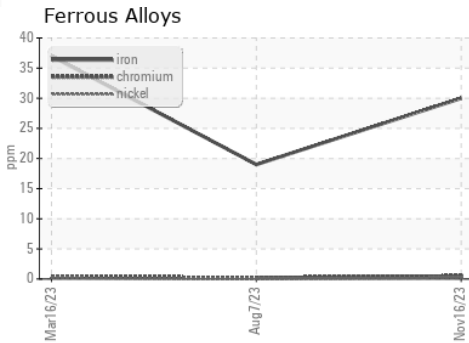
OIL ANALYSIS REPORT



VISUAL	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	12.00	11.8	11.5

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105911 **Received** : 24 Nov 2023
Lab Number : 06016169 **Diagnosed** : 27 Nov 2023
Unique Number : 10755313 **Diagnostician** : Wes Davis
Test Package : FLEET

Transervice - Shop 1361 - Berkeley-Windsor
 4400 State Road 19
 Windsor, WI
 US 53598
 Contact: Mike Hurda
 mhurda@transervice.com
 T: (608)846-2726
 F: (608)846-0389

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)