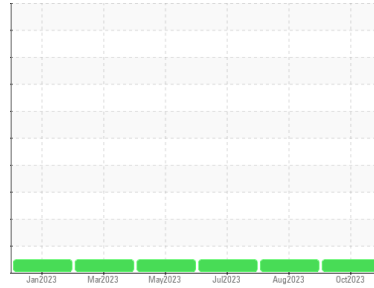


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(50947Z) Walgreens - Tractor
Machine Id
[Walgreens - Tractor] 136A63283
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	PCA0103785	PCA0103799	PCA0100230	
Sample Date	Client Info	09 Oct 2023	25 Aug 2023	05 Jul 2023	
Machine Age	mls	Client Info	178129	152759	119693
Oil Age	mls	Client Info	58436	33066	55342
Oil Changed	Client Info	Changed	Not Changd	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	<1.0
Glycol	WC Method	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >80	27	23	39
Chromium	ppm ASTM D5185m >5	3	2	3
Nickel	ppm ASTM D5185m >2	0	<1	<1
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >3	<1	<1	0
Aluminum	ppm ASTM D5185m >30	23	22	46
Lead	ppm ASTM D5185m >30	0	0	0
Copper	ppm ASTM D5185m >150	41	45	66
Tin	ppm ASTM D5185m >5	<1	<1	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 2	3	2	3
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 50	64	72	61
Manganese	ppm ASTM D5185m 0	1	<1	2
Magnesium	ppm ASTM D5185m 950	978	1069	846
Calcium	ppm ASTM D5185m 1050	1180	1200	1316
Phosphorus	ppm ASTM D5185m 995	845	1058	893
Zinc	ppm ASTM D5185m 1180	1255	1300	1159
Sulfur	ppm ASTM D5185m 2600	2239	3166	2311

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	8	6	6
Sodium	ppm ASTM D5185m	3	3	0
Potassium	ppm ASTM D5185m >20	54	57	110

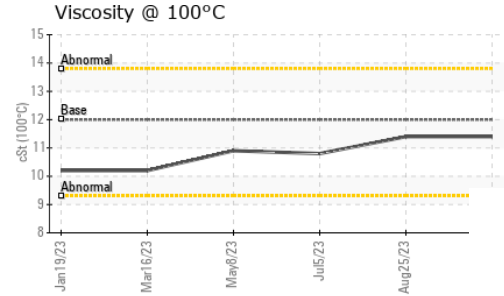
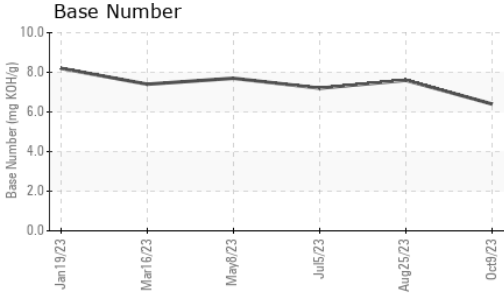
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	0.7	0.5	0.7
Nitration	Abs/cm *ASTM D7624 >20	9.5	7.8	10.0
Sulfation	Abs/.1mm *ASTM D7415 >30	21.6	19.6	22.3

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	18.4	15.6	19.6
Base Number (BN)	mg KOH/g ASTM D2896	6.4	7.6	7.2

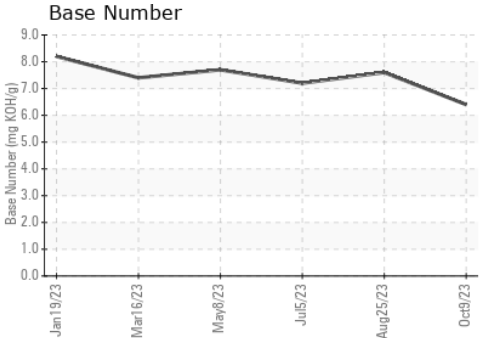
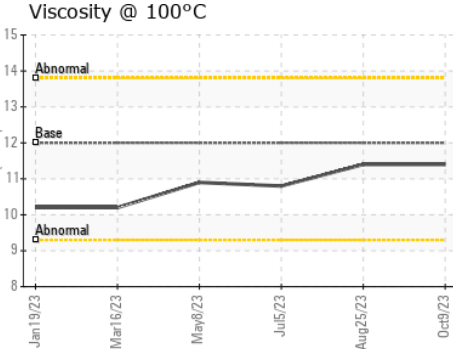
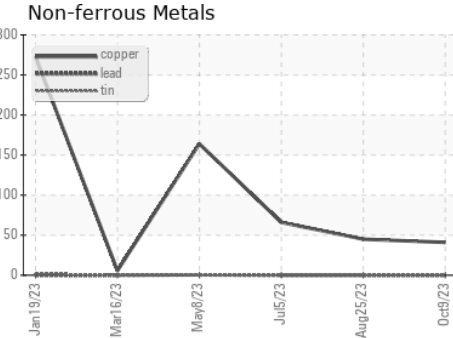
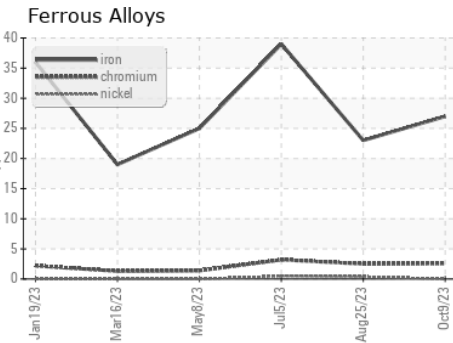
OIL ANALYSIS REPORT



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

PARAMETER	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.4	10.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PCA0103785
 Lab Number : 05979327
 Unique Number : 10696622
 Test Package : FLEET

Transervice - Shop 1364 - Berkeley-Mt. Vernon
 5100 Lake Terrace NE
 Mt. Vernon, IL
 US 62864
 Contact: Erien White
 ewhite@transervice.com
 T: (618)244-8726
 F: (618)244-8791

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)