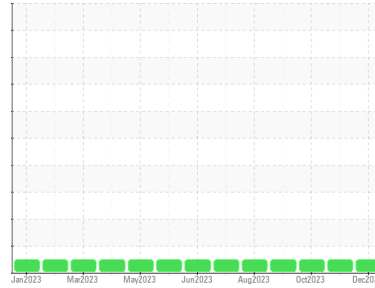


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(19 629L) Walgreens - Yard Horse
 Machine Id
[Walgreens - Yard Horse] 136A89103
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (11 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

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	PCA0112798	PCA0112883	PCA0103812
Sample Date	Client Info	21 Dec 2023	20 Nov 2023	17 Oct 2023
Machine Age	hrs	21500	21147	20863
Oil Age	hrs	637	284	379
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
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	39	17	25
Chromium	ppm ASTM D5185m >20	<1	<1	0
Nickel	ppm ASTM D5185m >4	2	3	2
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >20	5	4	3
Lead	ppm ASTM D5185m >40	0	<1	0
Copper	ppm ASTM D5185m >330	<1	0	<1
Tin	ppm ASTM D5185m >15	1	<1	0
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 0	0	2	<1
Barium	ppm ASTM D5185m 0	0	0	0
Molybdenum	ppm ASTM D5185m 60	59	52	56
Manganese	ppm ASTM D5185m 0	<1	<1	0
Magnesium	ppm ASTM D5185m 1010	987	860	905
Calcium	ppm ASTM D5185m 1070	1052	953	959
Phosphorus	ppm ASTM D5185m 1150	1003	1034	940
Zinc	ppm ASTM D5185m 1270	1194	1171	1178
Sulfur	ppm ASTM D5185m 2060	3093	2941	2843

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	4	4	5
Sodium	ppm ASTM D5185m	<1	2	2
Potassium	ppm ASTM D5185m >20	0	2	3

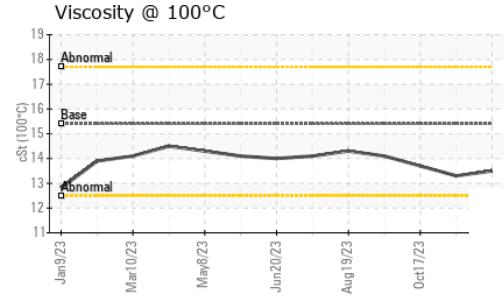
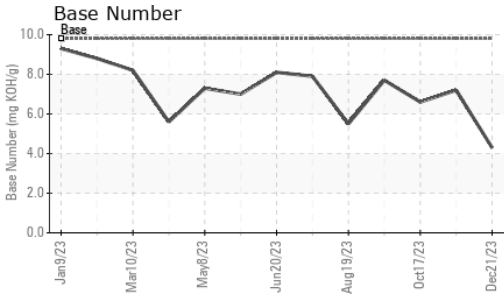
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.6	0.9	1.1
Nitration	Abs/cm *ASTM D7624 >20	12.3	9.2	9.4
Sulfation	Abs/.1mm *ASTM D7415 >30	29.4	24.0	23.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	34.4	24.9	24.2
Base Number (BN)	mg KOH/g ASTM D2896 9.8	4.3	7.2	6.6

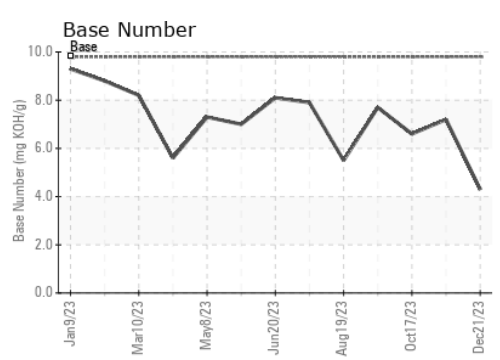
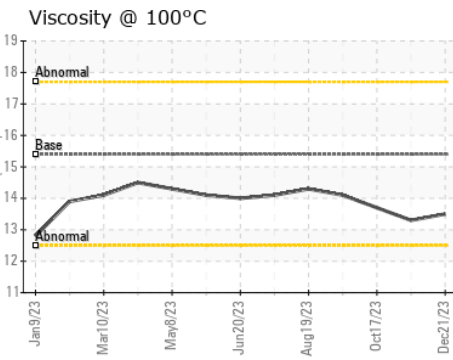
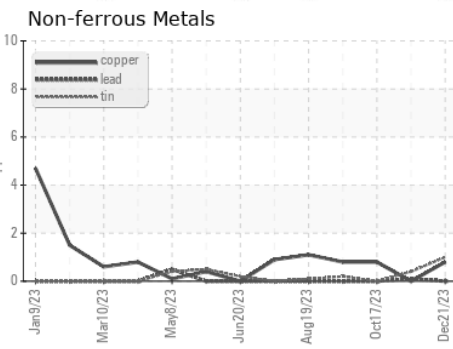
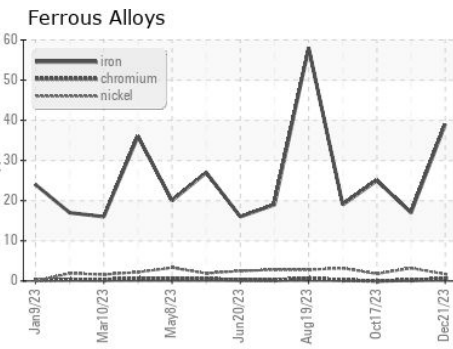
OIL ANALYSIS REPORT



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	15.4	13.5	13.3	13.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0112798 **Recieved** : 29 Dec 2023
Lab Number : **06047553** **Diagnosed** : 02 Jan 2024
Unique Number : 10808161 **Diagnostician** : Don Baldrige
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

Certificate L2367
 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)