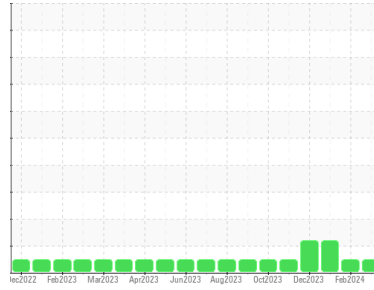


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(TEMP) Walgreens - Yard Horse
Machine Id
[Walgreens - Yard Horse] 136A81261
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	PCA0118733	PCA0112808	PCA0112860	
Sample Date	Client Info	06 Mar 2024	01 Feb 2024	09 Jan 2024	
Machine Age	hrs	Client Info	8778	8424	8132
Oil Age	hrs	Client Info	646	292	508
Oil Changed	Client Info	Changed	Not Changd	Changed	
Sample Status		NORMAL	NORMAL	ABNORMAL	

CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >5	<1.0	<1.0	▲ 3.6
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	27	14	18
Chromium	ppm ASTM D5185m >20	1	<1	<1
Nickel	ppm ASTM D5185m >4	<1	0	<1
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >3	0	<1	0
Aluminum	ppm ASTM D5185m >20	3	2	<1
Lead	ppm ASTM D5185m >40	0	0	0
Copper	ppm ASTM D5185m >330	3	2	1
Tin	ppm ASTM D5185m >15	0	0	0
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 0	0	1	<1
Barium	ppm ASTM D5185m 0	0	25	0
Molybdenum	ppm ASTM D5185m 60	52	62	58
Manganese	ppm ASTM D5185m 0	<1	0	<1
Magnesium	ppm ASTM D5185m 1010	849	885	930
Calcium	ppm ASTM D5185m 1070	972	987	1014
Phosphorus	ppm ASTM D5185m 1150	826	1013	941
Zinc	ppm ASTM D5185m 1270	1033	1150	1178
Sulfur	ppm ASTM D5185m 2060	2969	3033	2940

CONTAMINANTS

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

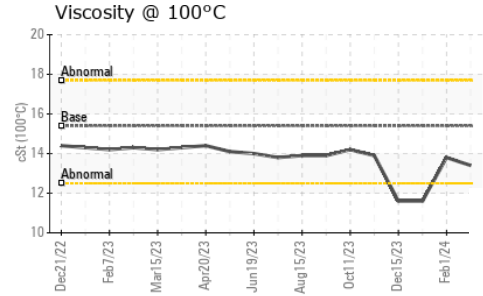
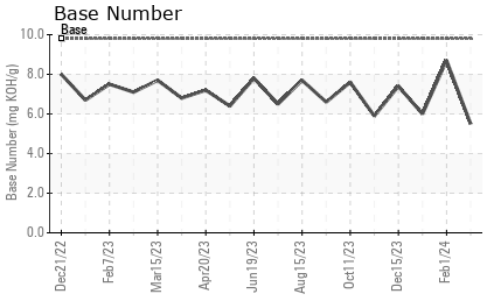
INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844 >3	1.7	0.9	1.2
Nitration	Abs/cm *ASTM D7624 >20	11.8	8.6	10.4
Sulfation	Abs/.1mm *ASTM D7415 >30	26.2	20.6	23.7

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	27.3	18.0	24.9
Base Number (BN)	mg KOH/g ASTM D2896 9.8	5.5	8.7	6.0

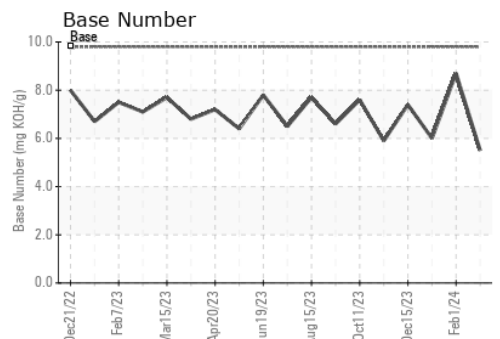
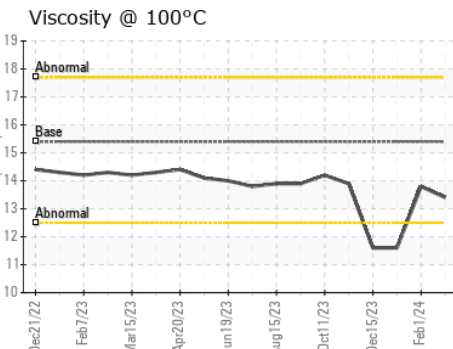
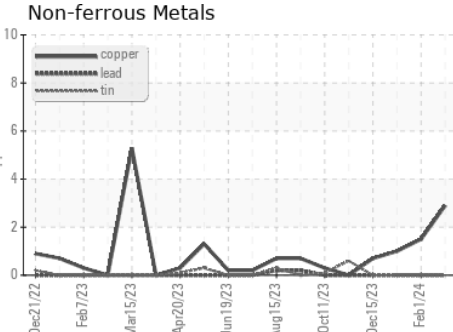
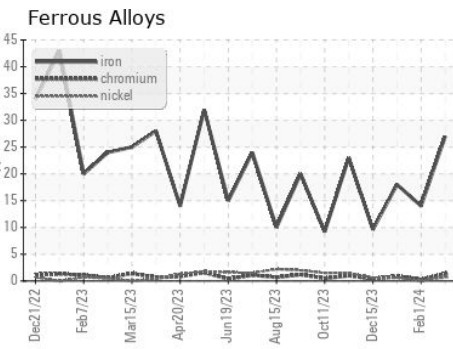
OIL ANALYSIS REPORT



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	13.4	13.8 ▲ 11.6

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0118733
Lab Number : **06114800**
Unique Number : 10923633
Test Package : FLEET

Received : 11 Mar 2024
Tested : 12 Mar 2024
Diagnosed : 13 Mar 2024 - Jonathan Hester

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)