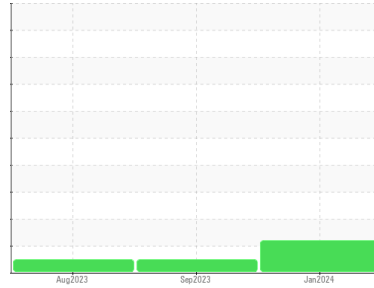


OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
731571
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. 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 level is low. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0114545	PCA0105326	PCA0102909
Sample Date	Client Info			09 Jan 2024	27 Sep 2023	04 Aug 2023
Machine Age	mls	Client Info		122163	290157	272304
Oil Age	mls	Client Info		122163	290157	272304
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				ABNORMAL	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	83	27	80
Chromium	ppm	ASTM D5185m	>20	3	1	3
Nickel	ppm	ASTM D5185m	>4	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	2
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	12	6	17
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	7	6	16
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

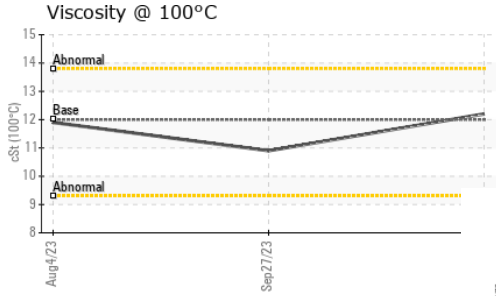
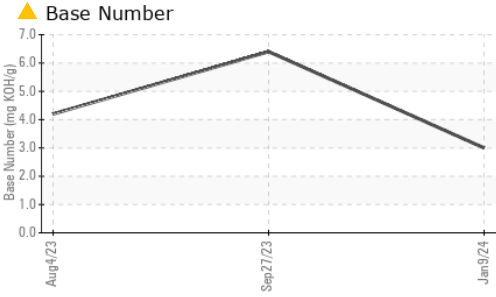
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	2	<1	0
Barium	ppm	ASTM D5185m	0	0	0	1
Molybdenum	ppm	ASTM D5185m	50	65	66	63
Manganese	ppm	ASTM D5185m	0	1	<1	1
Magnesium	ppm	ASTM D5185m	950	1002	1080	946
Calcium	ppm	ASTM D5185m	1050	1258	1375	1281
Phosphorus	ppm	ASTM D5185m	995	1136	1117	1058
Zinc	ppm	ASTM D5185m	1180	1397	1433	1310
Sulfur	ppm	ASTM D5185m	2600	2447	2775	2462

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	5	7
Sodium	ppm	ASTM D5185m		1	3	<1
Potassium	ppm	ASTM D5185m	>20	18	10	30

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	2.3	0.9	1.6
Nitration	Abs/cm	*ASTM D7624	>20	16.6	9.6	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.4	22.3	27.2

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	32.9	18.9	26.6
Base Number (BN)	mg KOH/g	ASTM D2896		3.0	6.4	4.2

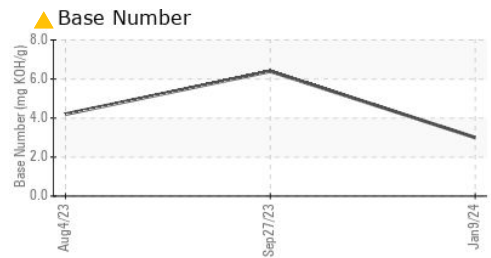
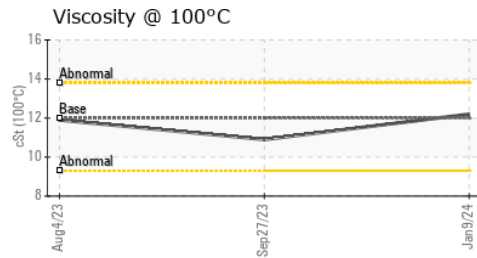
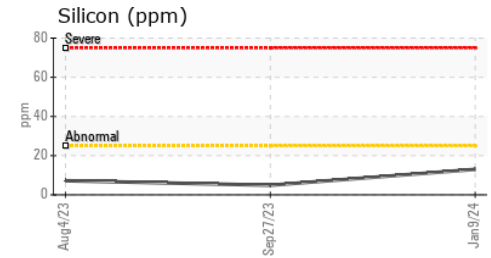
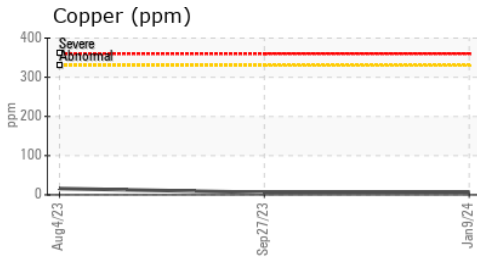
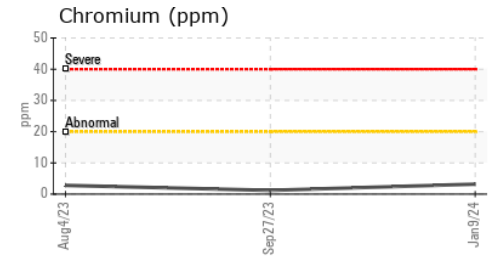
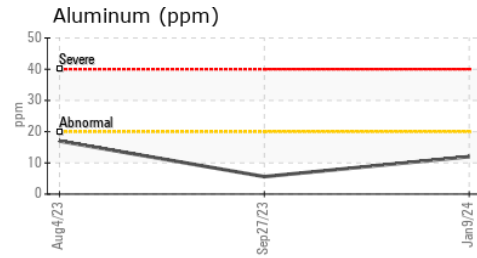
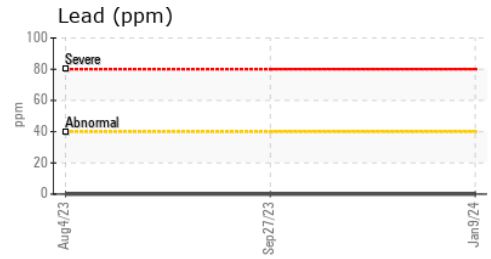
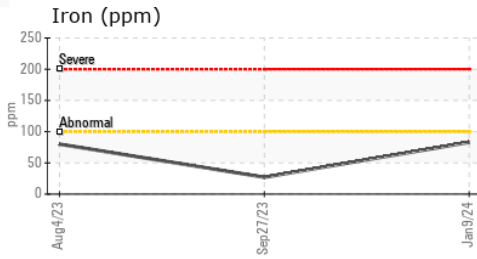
OIL ANALYSIS REPORT



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	12.2	10.9	11.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0114545 **Received** : 16 Jan 2024
Lab Number : 06060902 **Diagnosed** : 17 Jan 2024
Unique Number : 10832284 **Diagnostician** : Jonathan Hester
Test Package : MOB 1 (Additional Tests: TBN)

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 PHILADELPHIA, PA
 US 19116
 Contact: ROSTY VITER
 rviter@millertransgroup.com
 T: (215)552-9832
 F: (215)552-9892

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)