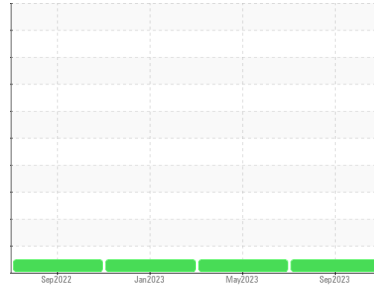


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Machine Id
636781
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a new component breaking in.

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			PCA0104285	PCA0098075	PCA0089711
Sample Date	Client Info			01 Sep 2023	26 May 2023	27 Jan 2023
Machine Age	mls	Client Info		69870	50176	31917
Oil Age	mls	Client Info		0	0	0
Oil Changed	Client Info			Not Chngd	Changed	Not Chngd
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	>100	33	97	75
Chromium	ppm	ASTM D5185m	>20	2	5	4
Nickel	ppm	ASTM D5185m	>4	1	4	4
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	30	75	71
Lead	ppm	ASTM D5185m	>40	<1	<1	5
Copper	ppm	ASTM D5185m	>330	452	312	323
Tin	ppm	ASTM D5185m	>15	4	19	20
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

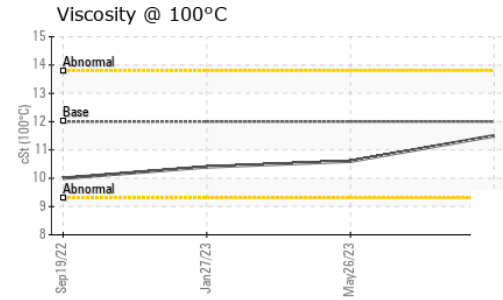
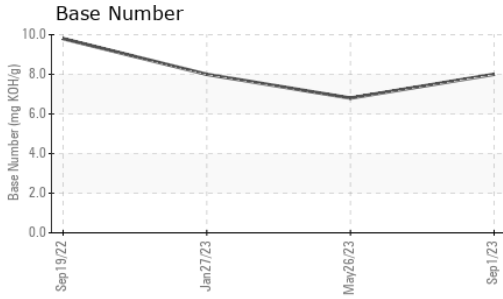
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	7	22	29
Barium	ppm	ASTM D5185m	0	0	<1	<1
Molybdenum	ppm	ASTM D5185m	50	62	54	55
Manganese	ppm	ASTM D5185m	0	1	5	5
Magnesium	ppm	ASTM D5185m	950	872	591	609
Calcium	ppm	ASTM D5185m	1050	1170	1684	1796
Phosphorus	ppm	ASTM D5185m	995	965	757	745
Zinc	ppm	ASTM D5185m	1180	1201	978	1012
Sulfur	ppm	ASTM D5185m	2600	2974	2143	2328

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	10	9
Sodium	ppm	ASTM D5185m		2	6	7
Potassium	ppm	ASTM D5185m	>20	68	178	157

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	1	0.7
Nitration	Abs/cm	*ASTM D7624	>20	8.4	12.8	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.5	24.6	23.5

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	25.6	23.6
Base Number (BN)	mg KOH/g	ASTM D2896		8.0	6.8	8.0

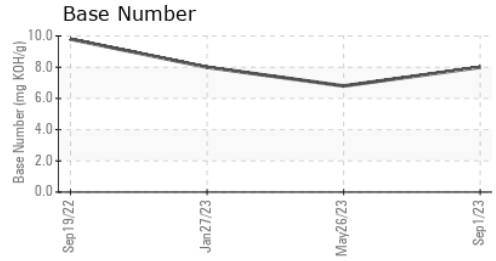
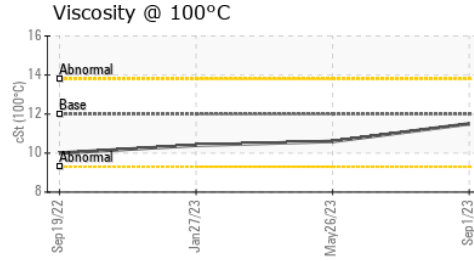
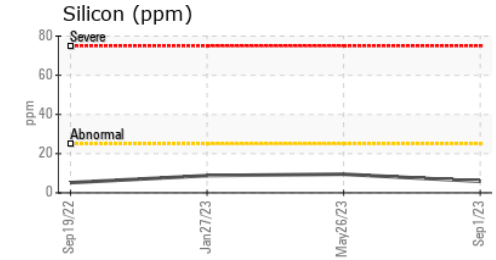
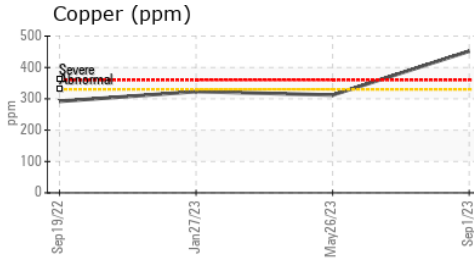
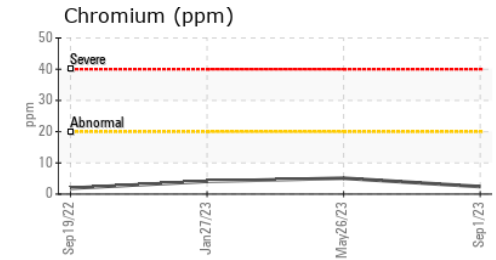
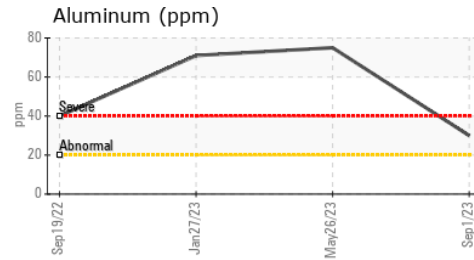
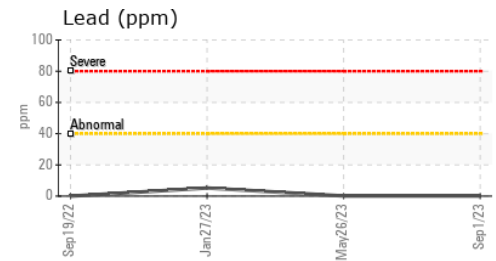
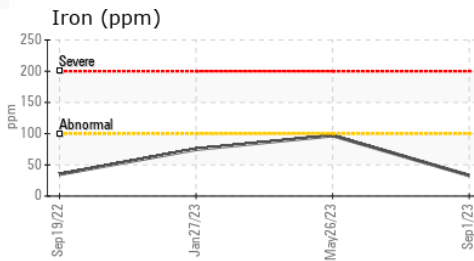
OIL ANALYSIS REPORT



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	12.00	11.5	10.6	10.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104285 **Received** : 20 Sep 2023
Lab Number : 05956147 **Diagnosed** : 21 Sep 2023
Unique Number : 10657360 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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 US 07604
 Contact: MIKE LONGETTE
 mlongette@millertransgroup.com
 T:
 F: (201)528-7053

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)