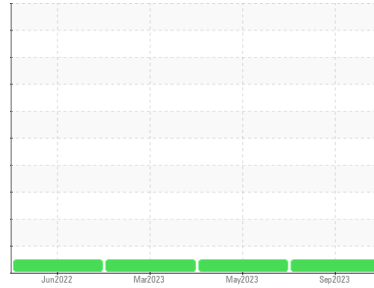


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
636782
 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

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			PCA0104286	PCA0098074	PCA0094268
Sample Date	Client Info			01 Sep 2023	26 May 2023	07 Mar 2023
Machine Age	mls Client Info			83980	69257	50818
Oil Age	mls Client Info			0	0	0
Oil Changed	Client Info			N/A	Changed	N/A
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	36	85	76
Chromium	ppm	ASTM D5185m	>20	2	5	5
Nickel	ppm	ASTM D5185m	>4	1	1	1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	26	82	81
Lead	ppm	ASTM D5185m	>40	0	<1	1
Copper	ppm	ASTM D5185m	>330	185	131	188
Tin	ppm	ASTM D5185m	>15	2	7	7
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0

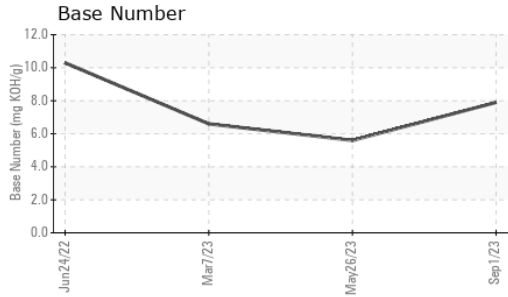
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	19	21
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	61	50	47
Manganese	ppm	ASTM D5185m	0	2	6	5
Magnesium	ppm	ASTM D5185m	950	894	697	551
Calcium	ppm	ASTM D5185m	1050	1194	1809	1724
Phosphorus	ppm	ASTM D5185m	995	977	832	680
Zinc	ppm	ASTM D5185m	1180	1220	1081	877
Sulfur	ppm	ASTM D5185m	2600	2865	2452	1763

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	10	9
Sodium	ppm	ASTM D5185m		3	7	8
Potassium	ppm	ASTM D5185m	>20	57	167	198

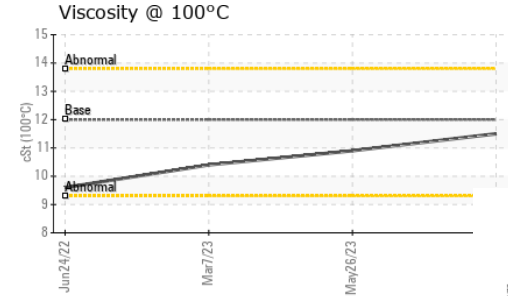
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	1.2	1.1
Nitration	Abs/cm	*ASTM D7624	>20	8.7	12.5	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	25.6	24.9

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.1	27.9	26.4
Base Number (BN)	mg KOH/g	ASTM D2896		7.9	5.6	6.6

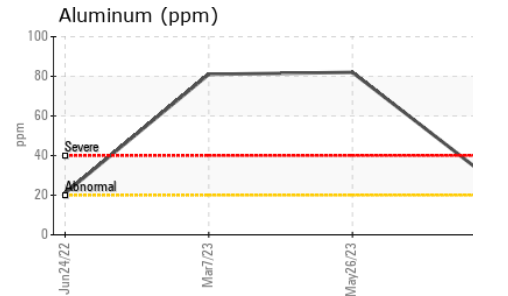
OIL ANALYSIS REPORT



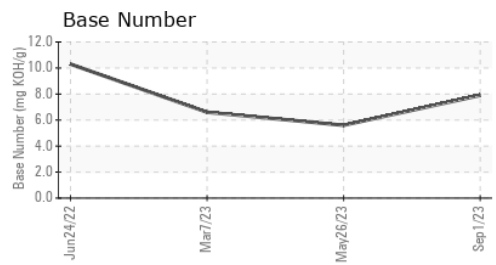
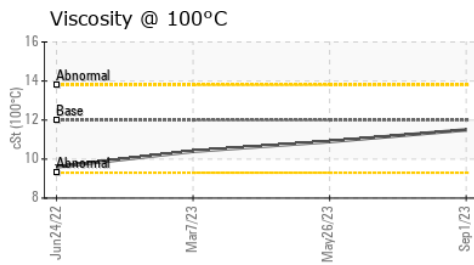
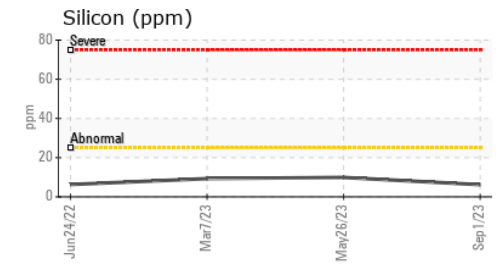
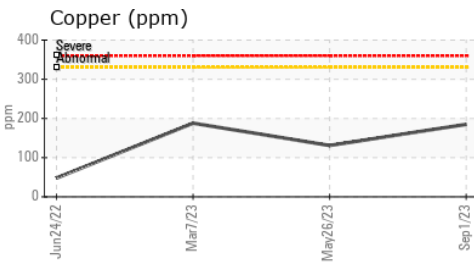
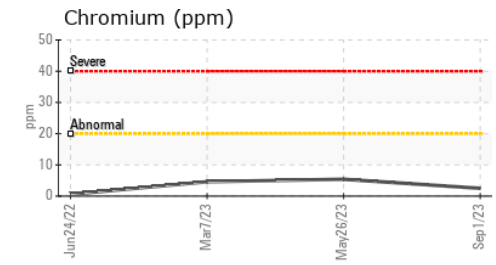
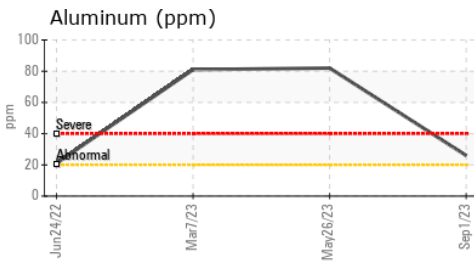
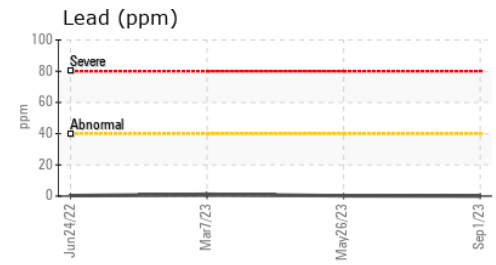
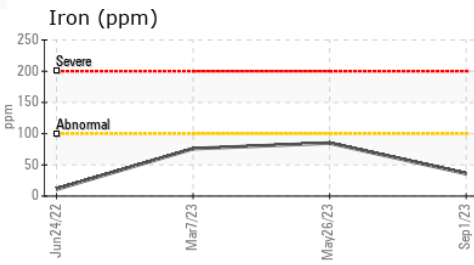
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	12.00	11.5	10.9



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0104286 **Received** : 20 Sep 2023
Lab Number : 05956168 **Diagnosed** : 21 Sep 2023
Unique Number : 10657381 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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 HASBROUCK HEIGHTS, NJ
 US 07604
 Contact: MIKE LONGETTE
 mlongette@millertransgroup.com
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 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)