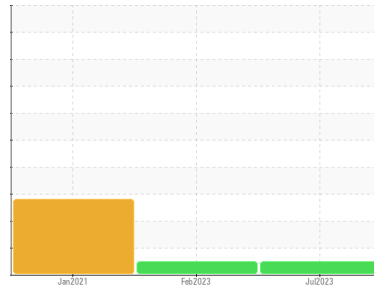


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
706373

Component
Diesel Engine

Fluid
PETRO CANADA DURON SHP 10W30 (--- QTS)

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 acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PCA0100803	PCA0085224	PCA0042352
Sample Date	Client Info			17 Jul 2023	17 Feb 2023	22 Jan 2021
Machine Age	mls	Client Info		37789	520538	73625
Oil Age	mls	Client Info		37789	520538	4000
Oil Changed	Client Info			Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

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	44	16	72
Chromium	ppm	ASTM D5185m	>20	2	1	14
Nickel	ppm	ASTM D5185m	>4	<1	0	2
Titanium	ppm	ASTM D5185m		7	22	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	8	4	▲ 86
Lead	ppm	ASTM D5185m	>40	<1	1	<1
Copper	ppm	ASTM D5185m	>330	57	115	▲ 645
Tin	ppm	ASTM D5185m	>15	2	<1	8
Antimony	ppm	ASTM D5185m		---	---	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0

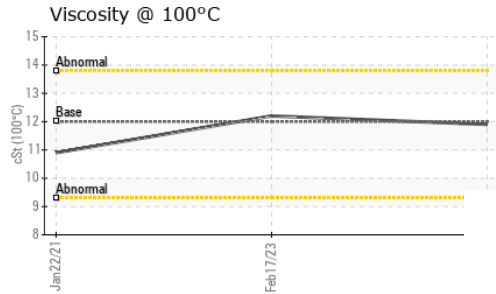
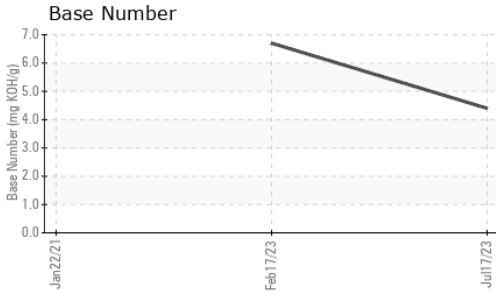
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	1	13	19
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	57	39	10
Manganese	ppm	ASTM D5185m	0	1	1	5
Magnesium	ppm	ASTM D5185m	950	912	698	758
Calcium	ppm	ASTM D5185m	1050	1377	1779	1542
Phosphorus	ppm	ASTM D5185m	995	1014	1036	717
Zinc	ppm	ASTM D5185m	1180	1300	1367	820
Sulfur	ppm	ASTM D5185m	2600	2749	2944	2041

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	5	12
Sodium	ppm	ASTM D5185m		4	2	8
Potassium	ppm	ASTM D5185m	>20	6	8	▲ 179

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	13.9	9.2	14
Sulfation	Abs/.1mm	*ASTM D7415	>30	25.0	21.6	24.8

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.2	18.1	26.1
Base Number (BN)	mg KOH/g	ASTM D2896		4.4	6.7	---

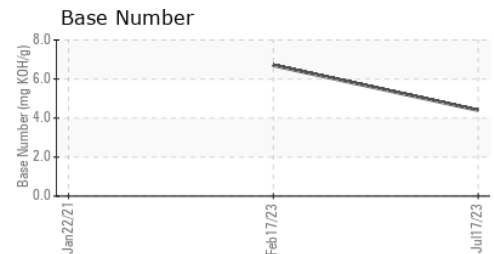
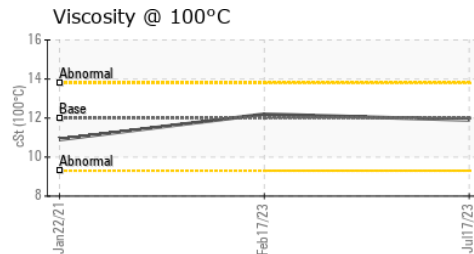
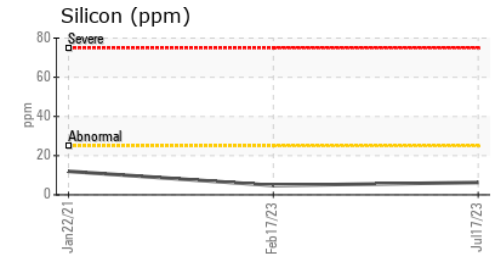
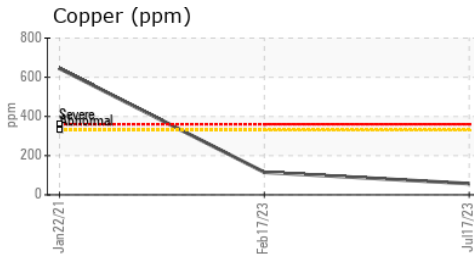
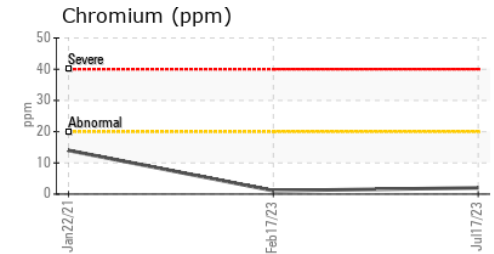
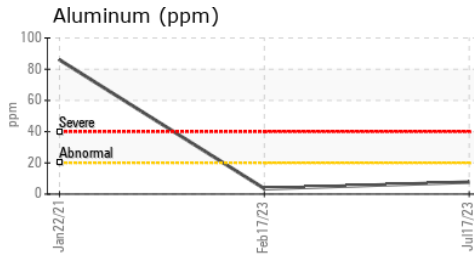
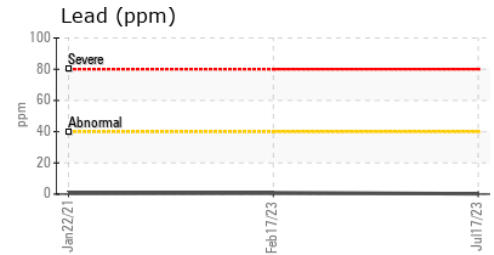
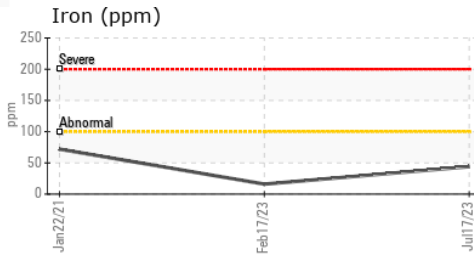
OIL ANALYSIS REPORT



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	11.9	12.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0100803 **Received** : 20 Jul 2023
Lab Number : 05903026 **Diagnosed** : 21 Jul 2023
Unique Number : 10564382 **Diagnostician** : Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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 US 19116
 Contact: ROSTY VITER
 rviter@millertransgroup.com
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 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)