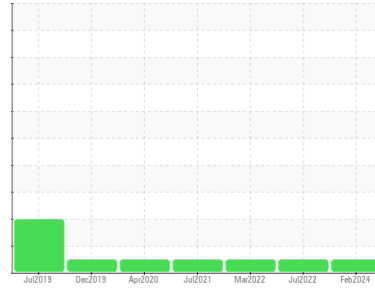


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Machine Id
490284
 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 suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	PCA0110659	PCA0071751	PCA0061087	
Sample Date	Client Info	01 Feb 2024	24 Jul 2022	16 Mar 2022	
Machine Age	mls	Client Info	267385	162853	141665
Oil Age	mls	Client Info	46256	56072	34884
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
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	47	45	33
Chromium	ppm	ASTM D5185m >20	2	4	3
Nickel	ppm	ASTM D5185m >4	0	0	0
Titanium	ppm	ASTM D5185m	15	<1	<1
Silver	ppm	ASTM D5185m >3	<1	0	<1
Aluminum	ppm	ASTM D5185m >20	24	28	23
Lead	ppm	ASTM D5185m >40	0	<1	0
Copper	ppm	ASTM D5185m >330	9	22	21
Tin	ppm	ASTM D5185m >15	<1	2	2
Antimony	ppm	ASTM D5185m	---	---	---
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	4	7	11
Barium	ppm	ASTM D5185m 0	25	0	0
Molybdenum	ppm	ASTM D5185m 50	54	56	60
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 950	803	853	923
Calcium	ppm	ASTM D5185m 1050	1162	1078	1134
Phosphorus	ppm	ASTM D5185m 995	1010	793	889
Zinc	ppm	ASTM D5185m 1180	1163	1054	1181
Sulfur	ppm	ASTM D5185m 2600	2936	2349	2342

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >25	6	6	6
Sodium	ppm	ASTM D5185m	0	4	2
Potassium	ppm	ASTM D5185m >20	20	38	36

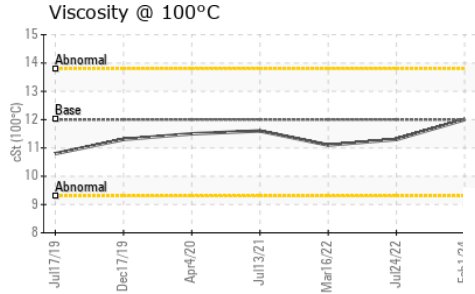
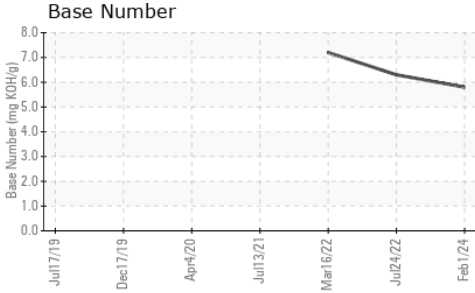
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844 >3	2.1	1.6	1
Nitration	Abs/cm	*ASTM D7624 >20	10.8	11.8	9.8
Sulfation	Abs/.1mm	*ASTM D7415 >30	25.3	26.3	22.3

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.4	19.1	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	5.8	6.3	7.2

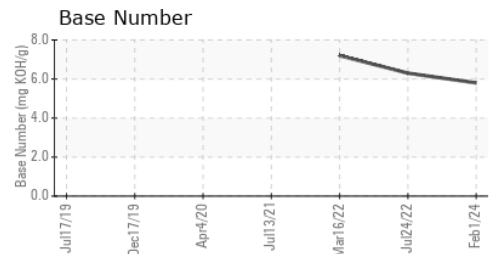
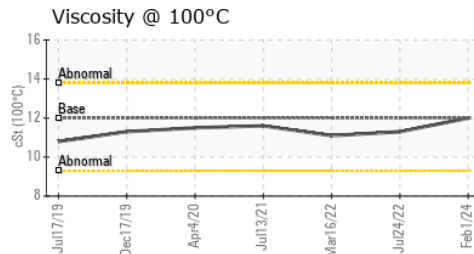
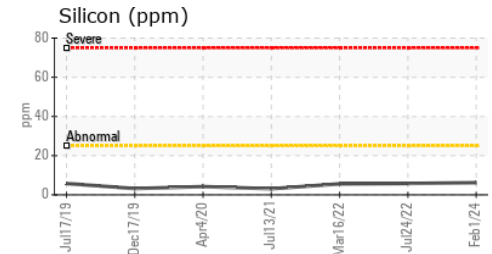
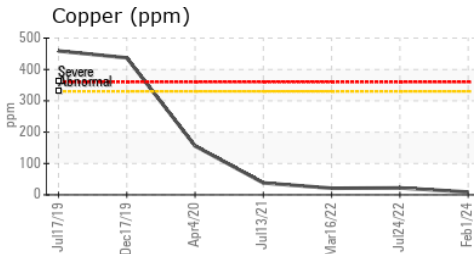
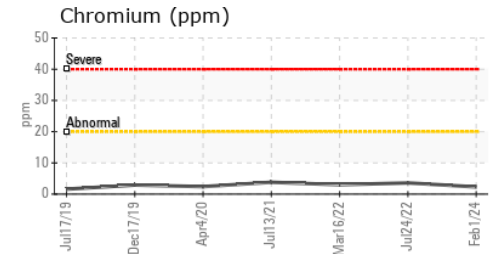
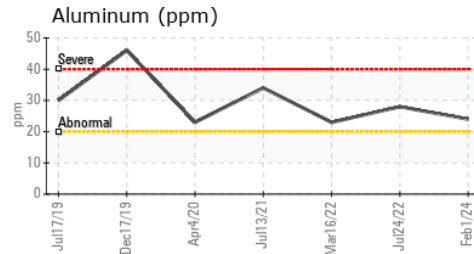
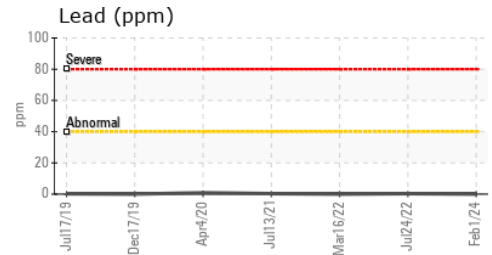
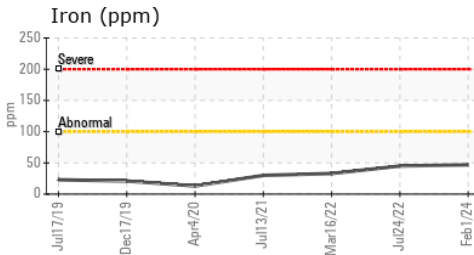
OIL ANALYSIS REPORT



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	12.0	11.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0110659 **Received** : 09 Feb 2024
Lab Number : 06084539 **Tested** : 12 Feb 2024
Unique Number : 10871984 **Diagnosed** : 12 Feb 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: TBN)

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 66 KELLER AVENUE
 LANCASTER, PA
 US 17601
 Contact: RON ROBERTS
 roberts@millertransgroup.com
 T: (717)945-6205
 F: (717)945-5818

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)