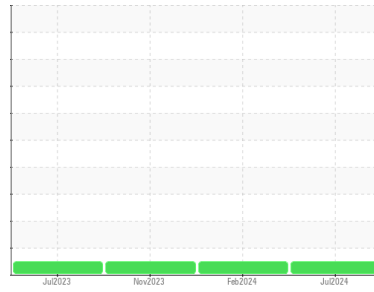


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
635447
 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			PCA0129053	PCA0118985	PCA0112209
Sample Date	Client Info			08 Jul 2024	28 Feb 2024	15 Nov 2023
Machine Age	mls	Client Info		73912	16791	40896
Oil Age	mls	Client Info		73912	16791	40896
Oil Changed	Client Info			Not Chngd	Changed	Changed
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	25	39	110
Chromium	ppm	ASTM D5185m	>20	1	2	6
Nickel	ppm	ASTM D5185m	>4	<1	<1	1
Titanium	ppm	ASTM D5185m		15	19	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>20	21	40	135
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	23	70	255
Tin	ppm	ASTM D5185m	>15	<1	<1	4
Vanadium	ppm	ASTM D5185m		<1	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	0

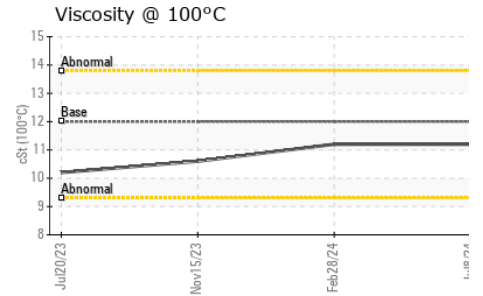
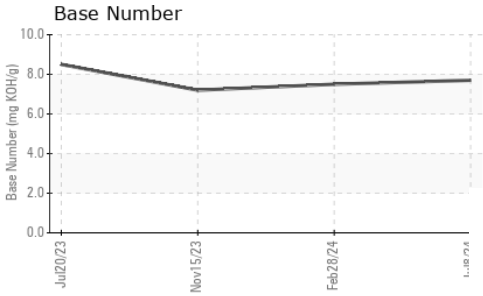
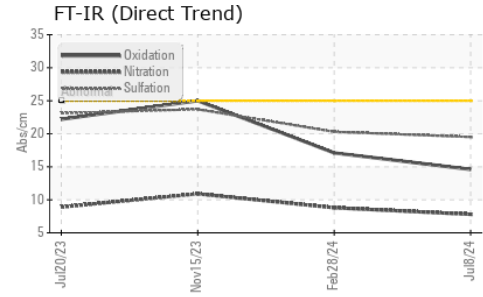
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	20	27	30
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	46	37	42
Manganese	ppm	ASTM D5185m	0	<1	2	5
Magnesium	ppm	ASTM D5185m	950	781	669	528
Calcium	ppm	ASTM D5185m	1050	1266	1354	1724
Phosphorus	ppm	ASTM D5185m	995	1036	1015	753
Zinc	ppm	ASTM D5185m	1180	1253	1188	913
Sulfur	ppm	ASTM D5185m	2600	3735	3037	1974

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	4	9
Sodium	ppm	ASTM D5185m		2	3	7
Potassium	ppm	ASTM D5185m	>20	50	92	331

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	1
Nitration	Abs/cm	*ASTM D7624	>20	7.8	8.8	10.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.5	20.3	23.7

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.6	17.1	25.0
Base Number (BN)	mg KOH/g	ASTM D2896		7.7	7.5	7.2

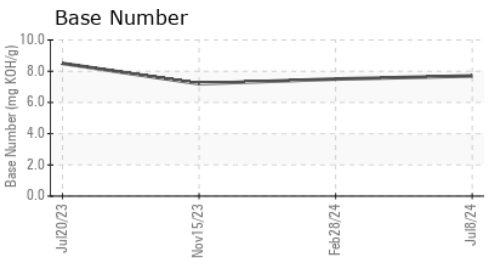
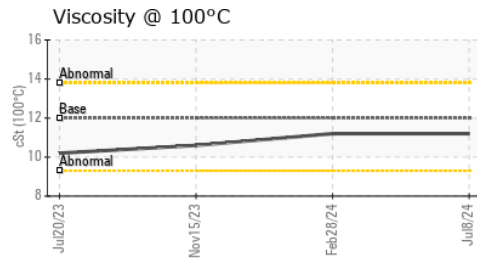
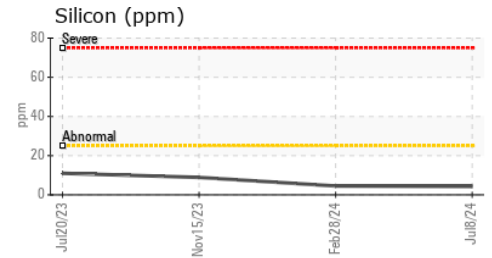
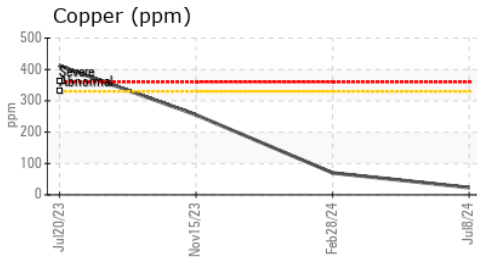
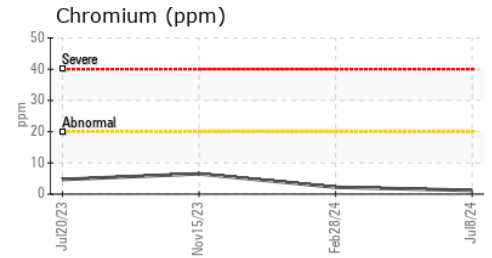
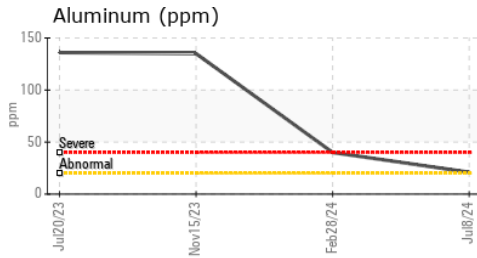
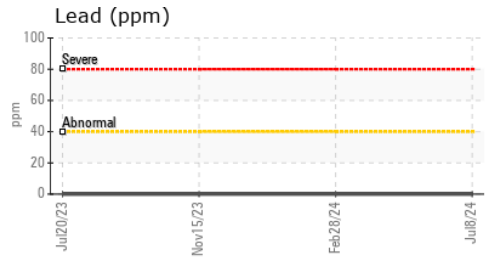
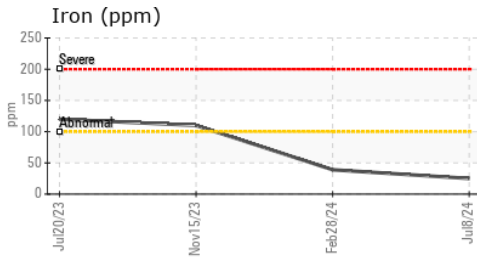
OIL ANALYSIS REPORT



PARAMETER	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	11.2	11.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0129053 **Received** : 12 Jul 2024
Lab Number : 06234448 **Tested** : 12 Jul 2024
Unique Number : 11123282 **Diagnosed** : 12 Jul 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: TBN)

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)

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