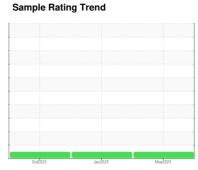


# **OIL ANALYSIS REPORT**

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NORMAL



Machine Id **644439** 

Component

Diesel Engine

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

## DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### 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 acceptable for the time in service.

QTS) 0::2023 Jun2024 May2024						
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0127015	PCA0117052	PCA0106274
Sample Date		Client Info		22 May 2024	30 Jan 2024	12 Oct 2023
Machine Age	mls	Client Info		65735	46738	23781
Oil Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	154	117	67
Chromium	ppm	ASTM D5185m	>20	7	7	4
Nickel	ppm	ASTM D5185m	>4	1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	230	219	170
Lead	ppm	ASTM D5185m	>40	<1	2	<1
Copper	ppm	ASTM D5185m	>330	191	192	162
Tin	ppm	ASTM D5185m	>15	3	3	3
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	25	28	33
Barium	ppm	ASTM D5185m	0	0	<1	0
Molybdenum	ppm	ASTM D5185m	50	48	49	46
Manganese	ppm	ASTM D5185m	0	6	5	4
Magnesium	ppm	ASTM D5185m	950	583	588	625
Calcium	ppm	ASTM D5185m	1050	1623	1833	1728
Phosphorus	ppm	ASTM D5185m	995	760	777	811
Zinc	ppm	ASTM D5185m	1180	919	920	1026
Sulfur	ppm	ASTM D5185m	2600	2027	1939	2352
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	13	10	9
Sodium	ppm	ASTM D5185m		6	8	7
Potassium	ppm	ASTM D5185m	>20	488	464	372
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	1.3	1.4	0.7
Nitration	Abs/cm	*ASTM D7624	>20	12.1	11.5	8.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.4	24.6	22.4
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	25.3	25.8	20.9
Base Number (BN)	mg KOH/g	ASTM D2896		6.5	6.2	7.6



# **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No. Lab Number

: PCA0127015 : 06195021 Unique Number : 11057144

Received **Tested** Diagnosed Test Package : MOB 1 ( Additional Tests: TBN )

: 30 May 2024 : 31 May 2024 : 31 May 2024 - Sean Felton

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)

T: F: (201)528-7053

Report Id: MILRUT [WUSCAR] 06195021 (Generated: 05/31/2024 14:04:47) Rev: 1

US 07604

39 INDUSTRIAL AVE

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