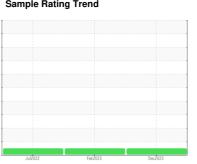


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



**NORMAL** 



# INTERNATIONAL 004122

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (18 QTS)

### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the

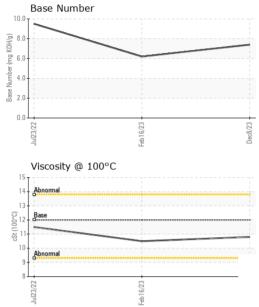
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS) Juli222 Feb.023 Dec.023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0091567	PCA0071389	PCA0045594
Sample Date		Client Info		08 Dec 2023	16 Feb 2023	23 Jul 2022
Machine Age	mls	Client Info		50571	23480	6674
Oil Age	mls	Client Info		27091	16806	6674
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>130	26	67	48
Chromium	ppm	ASTM D5185m	>10	<1	1	<1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	22	34	10
Lead	ppm	ASTM D5185m	>20	<1	<1	0
Copper	ppm	ASTM D5185m	>125	4	10	19
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	<1	4
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	50	59	60	56
Manganese	ppm	ASTM D5185m	0	<1	2	1
Magnesium	ppm	ASTM D5185m	950	935	918	893
Calcium	ppm	ASTM D5185m	1050	1009	1115	1034
Phosphorus	ppm	ASTM D5185m	995	950	903	981
Zinc	ppm	ASTM D5185m	1180	1185	1199	1186
Sulfur	ppm	ASTM D5185m	2600	2824	3133	3182
CONTAMINANTS method limit/base current history1 history2						history2
Silicon	ppm	ASTM D5185m	>25	6	7	8
Sodium	ppm	ASTM D5185m		<1	2	1
Potassium	ppm	ASTM D5185m	>20	50	90	21
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.3	0.5	0.2
Nitration	Abs/cm	*ASTM D7624	>20	9.3	10.8	7.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	21.5	19.2
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	19.0	19.6	15.7
Base Number (BN)	mg KOH/g	ASTM D2896		7.4	6.2	9.5
200 : 12OU: (DIV)						



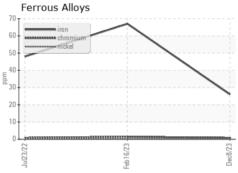
# **OIL ANALYSIS REPORT**

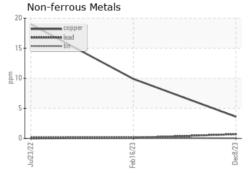


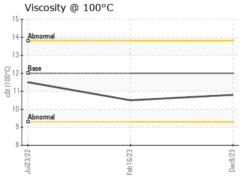
VISUAL		method				history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

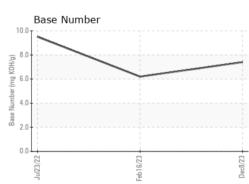
FLUID PROP	EHILO	method			riistory i	History2
Visc @ 100°C	cSt	ASTM D445	12.00	10.8	10.5	11.5

### **GRAPHS**











Laboratory Sample No. Lab Number Unique Number : 10795533

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0091567 : 06040304

Recieved

Diagnosed Diagnostician : Angela Borella

: 20 Dec 2023 : 21 Dec 2023

Test Package : FLEET ( Additional Tests: FT-IR(Diff) ) 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)

ICSB370 - Alton 4525 North Alby Road Godfrey, IL

US 62035 Contact: Chad Ingold c.ingold@illinois-central.com

T: (618)466-5400