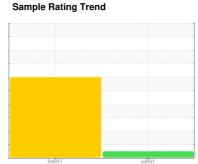


# **OIL ANALYSIS REPORT**







Machine Id **300-67** Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- 0

# 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

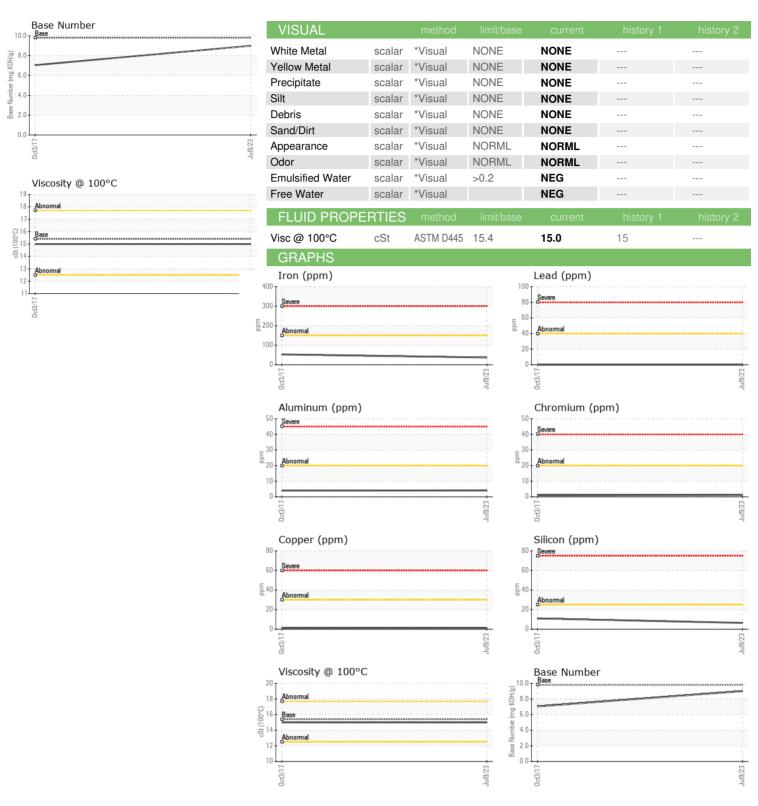
## **Fluid Condition**

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

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			0ct2017	Jui2023	la i a ta m . d	history O
SAMPLE INFOR	IIVIA I ION		limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0082165	LWI-F18173	
Sample Date		Client Info		09 Jul 2023	03 Oct 2017	
Machine Age	hrs	Client Info		2293	1972	
Oil Age	hrs	Client Info		481	400	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	SEVERE	
CONTAMINAT	TION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	<1.0	
Glycol		WC Method		NEG	NEG	
WEAR METAL	_S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>150	37	53	
Chromium	ppm	ASTM D5185m	>20	1	1	
Nickel	ppm	ASTM D5185m	>2	- <1	0	
Titanium	ppm	ASTM D5185m	>2	4	<b>1</b> 2	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>20	4	4	
Lead	ppm	ASTM D5185m	>40	0	0	
Copper	ppm	ASTM D5185m	>30	1	1	
Tin	ppm	ASTM D5185m	>15	- <1	0	
Antimony	ppm	ASTM D5185m	>10		2	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES	ррш	method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	24	57	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	50	25 0	
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	1010	655	113	
Calcium	ppm	ASTM D5185m	1070	1838	3257	
Phosphorus	ppm	ASTM D5185m	1150	1060	1200	
Zinc	ppm	ASTM D5185m	1270	1330	1392	
Sulfur Lithium	ppm	ASTM D5185m ASTM D5185m	2060	4129	0	
	ppm		line it /le e e e			history O
CONTAMINAN		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	6	11	
Sodium	ppm	ASTM D5185m	00	6	13	
Potassium	ppm	ASTM D5185m	>20	3	0	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	9.9	11	
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5		
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	15	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	7.05	
	Jy					



# **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: 05893342 : 10549152

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0082165

Received Diagnosed

: 10 Jul 2023 : 11 Jul 2023 Diagnostician : Don Baldridge

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.

**GE MARSHALL EXCAVATION** 

1351 JOLIET RD VALPARAISO, IN US 46385 Contact: RICK YUKON

rick.yukon@gemarshall.com

T:

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: