

# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id **INTERNATIONAL 539** 

Component

Diesel Engine

PETRO CANADA DURON HP 15W40 (--- GAL)

## 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.

AL)		Aug	2023	Dec2023 May20	324	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0905898	WC0792732	WC0792651
Sample Date		Client Info		23 May 2024	28 Dec 2023	15 Aug 2023
Machine Age	mls	Client Info		124110	119183	115672
Oil Age	mls	Client Info		5000	5000	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	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	31	37	54
Chromium	ppm	ASTM D5185m	>20	1	<1	2
Nickel	ppm	ASTM D5185m	>4	<1	<1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>20	9	7	12
Lead	ppm	ASTM D5185m	>40	2	<1	4
Copper	ppm	ASTM D5185m	>330	3	3	5
Tin	ppm	ASTM D5185m	>15	1	0	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		7	8	7
Barium	ppm	ASTM D5185m		0	0	1
Molybdenum	ppm	ASTM D5185m		59	63	63
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		905	909	772
Calcium	ppm	ASTM D5185m		1036	1084	1129
Phosphorus	ppm	ASTM D5185m		1023	977	950
Zinc	ppm	ASTM D5185m		1209	1198	1108
Sulfur	ppm	ASTM D5185m		3376	3178	2816
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	5	8
Sodium	ppm	ASTM D5185m		3	<1	<1
Potassium	ppm	ASTM D5185m	>20	35	1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.9	0.9	1.4
Nitration	Abs/cm	*ASTM D7624	>20	8.4	8.1	10.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.6	19.9	21.3
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.0	14.8	16.9
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	9.0	9.2	8.4
(DIV)	mg nong	. IO THI DEGGO	3.0	0.0	V.L	0. 1



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Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06196480

: WC0905898 Unique Number : 11058603

Received : 31 May 2024 **Tested** Diagnosed

: 03 Jun 2024 : 03 Jun 2024 - Wes Davis

1603 SALEM CHURCH RD GOLDSBORO, NC US 27530

**WAYNE CO SCHOOL BUS GARAGE** 

Contact: BRANDON BRIGGS brandonbriggs@wcps.org

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.

Test Package : MOB 1 ( Additional Tests: TBN )

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

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F: