

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



# VANAIR VIPER D70 12637 (S/N 30-22116818)

**Diesel Engine** 

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

# 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

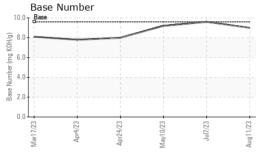
## **Fluid Condition**

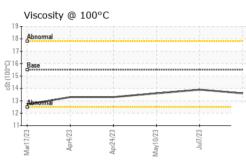
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

15W40 ( GAL)		Mar2023	Apr2023 Apr2023	May2023 Jul2023	Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0837191	WC0831242	WC0790907
Sample Date		Client Info		11 Aug 2023	07 Jul 2023	10 May 2023
Machine Age	hrs	Client Info		1301	1124	866
Oil Age	hrs	Client Info		177	258	69
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	20	14	7
Chromium	ppm	ASTM D5185m	>20	7	4	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	4	5	<1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	<1	2	<1
Tin	ppm	ASTM D5185m	>15	0	<1	0
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	1	8	4	13
Barium	ppm	ASTM D5185m	1	0	2	0
Molybdenum	ppm	ASTM D5185m	60	60	63	58
Manganese	ppm	ASTM D5185m	1	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	912	936	946
Calcium	ppm	ASTM D5185m	1070	1206	1126	1148
Phosphorus	ppm	ASTM D5185m	1150	1040	1026	1001
Zinc	ppm	ASTM D5185m	1270	1210	1251	1247
Sulfur	ppm	ASTM D5185m	2060	2794	3324	3485
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	16	13	12
Sodium	ppm	ASTM D5185m		0	1	2
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.8	6.7	5.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.4	18.7	18.3
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.7	14.5
Base Number (BN)	mg KOH/g	ASTM D2896		9.0	9.6	9.2
= 3.55 . 13.71551 (514)	9		3.0	0.0	0.0	V



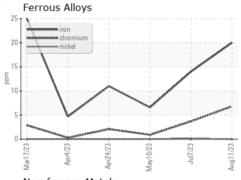
# **OIL ANALYSIS REPORT**

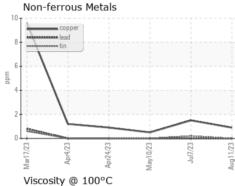


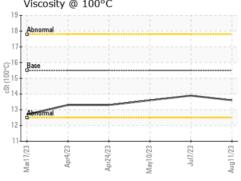


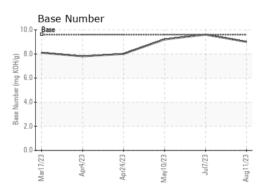
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

FLUID PROPER	IIIES	method	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	15.5	13.6	13.9	13.6













Certificate L2367

Laboratory Sample No. Lab Number Unique Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0837191 : 05931992 : 10617263

Received Diagnosed Diagnostician : Wes Davis

: 23 Aug 2023 : 24 Aug 2023

Test Package : CONST ( 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)

US 28563

Contact: MIKE WYATT mwyatt@traderconstruction.com

TRADER CONSTRUCTION CO.

T: (252)633-1399 F: (252)638-4871

PO DRAWER 1578

NEW BERN, NC

Report Id: TRANEW [WUSCAR] 05931992 (Generated: 08/24/2023 17:27:35) Rev: 1

Contact/Location: MIKE WYATT - TRANEW