

# **OIL ANALYSIS REPORT**

# Sample Rating Trend

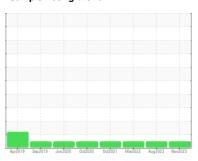
# **NORMAL**

# Wachine Id VOLVO VNR640 SLEEPER W/ELECTRIC APU 1926705

Component

**Diesel Engine** 

PETRO CANADA DURON SHP 10W30 (--- 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

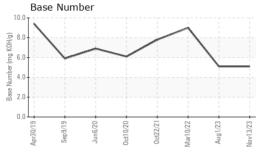
# **Fluid Condition**

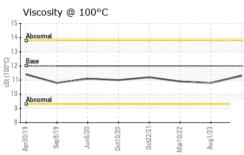
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)  Apr2019 Smp2019 June2020 Occ2020 Occ2021 Mm2022 Aug/2023 Nov/2023						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0108113	PCA0102008	PCA0068390
Sample Date		Client Info		13 Nov 2023	01 Aug 2023	10 Mar 2022
Machine Age	mls	Client Info		483611	483611	331546
Oil Age	mls	Client Info		331546	152065	19000
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<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	>100	28	22	33
Chromium	ppm	ASTM D5185m	>20	1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>25	3	2	4
Lead	ppm	ASTM D5185m	>40	2	1	2
Copper	ppm	ASTM D5185m	>330	4	3	8
Tin	ppm	ASTM D5185m	>15	1	<1	1
Antimony	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	<1	2	4
Barium	ppm	ASTM D5185m	0	0	2	0
Molybdenum	ppm	ASTM D5185m	50	61	55	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	941	860	951
Calcium	ppm	ASTM D5185m	1050	1061	1005	1153
Phosphorus	ppm	ASTM D5185m	995	996	879	986
Zinc	ppm	ASTM D5185m	1180	1226	1164	1179
Sulfur	ppm	ASTM D5185m	2600	2668	2992	2460
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	3	5
Sodium	ppm	ASTM D5185m		12	10	15
Potassium	ppm	ASTM D5185m	>20	1	<1	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.6	0
Nitration	Abs/cm	*ASTM D7624	>20	10.3	10.0	7.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	23.5	22.8	20.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	20.1	18.9	16.5
Base Number (BN)	mg KOH/g	ASTM D2896		5.1	5.1	9.0



# **OIL ANALYSIS REPORT**

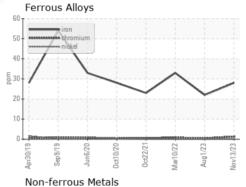


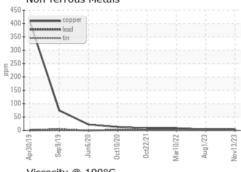


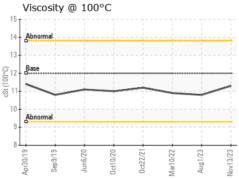
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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

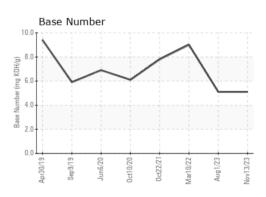
FLUID PROPE	KIIES	metnoa	ilmit/base	current	nistory i	nistory2
Visc @ 100°C	cSt	ASTM D445	12.00	11.3	10.8	10.9

# **GRAPHS**













Certificate L2367

Laboratory

Sample No. Lab Number Test Package : FLEET

Unique Number : 10752943

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0108113 : 06013799

Received : 21 Nov 2023 : 22 Nov 2023 Diagnosed Diagnostician : Wes Davis

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)

**PERDUE FARMS - DILLON** 

2047 HWY 9 WEST DILLON, SC US 29536

Contact: KEVIN HOOKS kevin.hooks@perdue.com

Submitted By: KEVIN HOOKS

T: (843)841-8069 F: (843)841-8070