

OIL ANALYSIS REPORT

Sample Rating Trend





Wachine Id VOLVO VNR640 SLEEPER W/ELECTRIC APU 1926695

Component

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

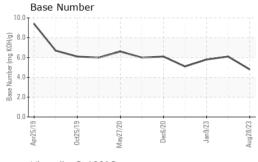
Fluid Condition

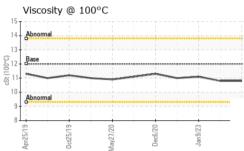
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

QTS)		Apr2019	Oct2019 May2020	Dec2020 Jan2023	Aug2023	
SAMPLE INFORM	NOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0104865	PCA0095822	PCA0090109
Sample Date		Client Info		28 Aug 2023	05 May 2023	09 Jan 2023
Machine Age	mls	Client Info		132821	132821	132821
Oil Age	mls	Client Info		132821	132821	132821
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	44	51	54
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	5	4	2
Lead	ppm	ASTM D5185m	>40	1	<1	<1
Copper	ppm	ASTM D5185m	>330	4	6	8
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Antimony	ppm	ASTM D5185m				
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	2	0	4	0
Barium	ppm	ASTM D5185m	0	0	0	2
Molybdenum	ppm	ASTM D5185m	50	60	66	62
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	936	931	909
Calcium	ppm	ASTM D5185m	1050	1045	1103	1137
Phosphorus	ppm	ASTM D5185m	995	939	943	957
Zinc	ppm	ASTM D5185m	1180	1250	1228	1212
Sulfur	ppm	ASTM D5185m	2600	3257	3284	2616
CONTAMINAN [*]	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5	7	6
Sodium	ppm	ASTM D5185m		12	12	13
Potassium	ppm	ASTM D5185m	>20	3	2	3
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.7	0.6	0.7
Nitration	Abs/cm	*ASTM D7624	>20	9.9	10.0	10.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.7	21.6	22.2
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	17.5	18.4
Base Number (BN)	mg KOH/g	ASTM D2896		4.8	6.1	5.8



OIL ANALYSIS REPORT

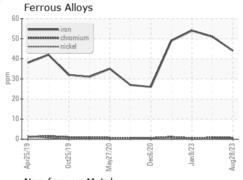


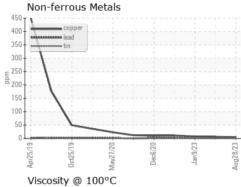


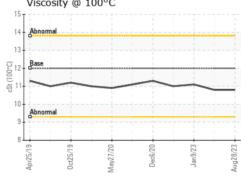
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

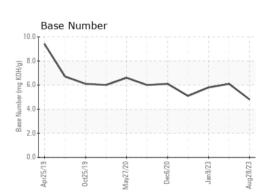
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	10.8	10.8	11.1

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 10629287

: PCA0104865 : 05938675

Received : 30 Aug 2023 Diagnosed Diagnostician : Wes Davis

: 31 Aug 2023

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 T: (843)841-8069

Submitted By: KEVIN HOOKS

F: (843)841-8070