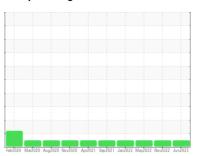


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id 1926732

Component **Diesel Engine**

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

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

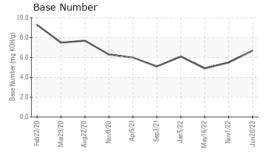
Fluid Condition

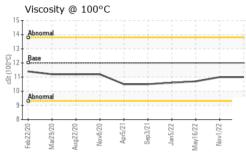
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Feb.2020 Mar2020 Aug.2020 Nov.2020 Apr.2021 Sep.2021 Sep.2021 Mar2022 Nov.2022 Sun.2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		PCA0100740	PCA0083031	PCA0074589	
Sample Date		Client Info		26 Jun 2023	01 Nov 2022	16 May 2022	
Machine Age	mls	Client Info		0	213835	211556	
Oil Age	mls	Client Info		20000	22279	211556	
Oil Changed		Client Info		Not Changd	Not Changd	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINATI	ION	method	limit/base	current	history1	history2	
Fuel		WC Method	>5	<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	24	31	45	
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1	
Nickel	ppm	ASTM D5185m	>4	0	<1	<1	
Titanium	ppm	ASTM D5185m		5	37	2	
Silver	ppm	ASTM D5185m	>3	0	<1	<1	
Aluminum	ppm	ASTM D5185m	>20	2	4	5	
Lead	ppm	ASTM D5185m	>40	1	2	2	
Copper	ppm	ASTM D5185m	>330	6	9	13	
Tin	ppm	ASTM D5185m	>15	1	2	3	
Antimony	ppm	ASTM D5185m					
Vanadium	ppm	ASTM D5185m		0	<1	0	
Cadmium	ppm	ASTM D5185m		0	0	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	2	<1	9	4	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	57	35	54	
Manganese	ppm	ASTM D5185m	0	<1	<1	<1	
Magnesium	ppm	ASTM D5185m	950	895	680	840	
Calcium	ppm	ASTM D5185m	1050	1185	1403	1105	
Phosphorus	ppm	ASTM D5185m	995	1033	931	861	
Zinc	ppm	ASTM D5185m	1180	1240	1194	1110	
Sulfur	ppm	ASTM D5185m	2600	3004	3329	2810	
CONTAMINAN	TS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	4	5	4	
Sodium	ppm	ASTM D5185m		10	14	15	
Potassium	ppm	ASTM D5185m	>20	1	<1	1	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.2	0.4	0.5	
Nitration	Abs/cm	*ASTM D7624	>20	9.4	11.2	11.7	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.1	26.1	23.8	
FLUID DEGRAD	NOITA	method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8	21.3	20.7	
Base Number (BN)	mg KOH/g	ASTM D2896		6.7	5.5	4.9	



OIL ANALYSIS REPORT

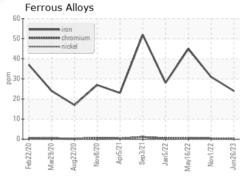


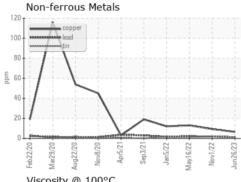


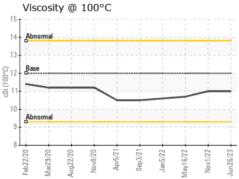
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

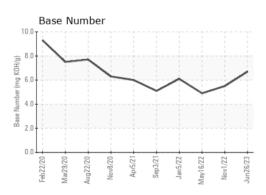
FLUID PROPERTIES		method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.0	11.0	10.7

GRAPHS













Certificate L2367

Laboratory

Sample No. Lab Number Test Package : FLEET

: PCA0100740 : 05930712 Unique Number : 10615983

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Aug 2023 Diagnosed : 22 Aug 2023 Diagnostician : Wes Davis

PERDUE FARMS - GEORGETOWN

20621 SAVANAH RD GEORGETOWN, DE US 19947

Contact: ROBERT LOCKWOOD

Robert.Lockwood@Perdue.com

* - 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)

Report Id: PERGEODE [WUSCAR] 05930712 (Generated: 08/22/2023 19:29:29) Rev: 1

Submitted By: ?

T:

F: