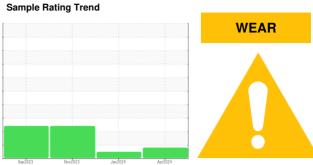


OIL ANALYSIS REPORT



Machine Id 2227061

Diesel Engine

PETRO CANADA DURON SHP 10W30 (--- Q

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Valve wear is indicated. All other 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)		Sep 202:	3 Nov2023	Jan2024 Ap	12024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0124563	PCA0113264	PCA0109366
Sample Date		Client Info		14 Apr 2024	08 Jan 2024	06 Nov 2023
Machine Age	mls	Client Info		86361	64874	43386
Oil Age	mls	Client Info		45000	21388	43386
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATI	ION	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	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	38	17	46
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	<u> </u>	1	2
Titanium	ppm	ASTM D5185m		8	<1	<1
Silver	ppm	ASTM D5185m	>3	2	4	8
Aluminum	ppm	ASTM D5185m	>20	10	7	31
Lead	ppm	ASTM D5185m	>40	0	6	<1
Copper	ppm	ASTM D5185m	>330	228	381	<u></u> 350
Tin	ppm	ASTM D5185m	>15	1	2	4
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	9	7	48
Barium	ppm	ASTM D5185m	0	0	0	13
Molybdenum	ppm	ASTM D5185m	50	61	57	106
Manganese	ppm	ASTM D5185m	0	2	1	3
Magnesium	ppm	ASTM D5185m	950	930	830	697
Calcium	ppm	ASTM D5185m	1050	1263	1072	1425
Phosphorus	ppm	ASTM D5185m	995	997	906	730
Zinc	ppm	ASTM D5185m	1180	1226	1023	889
Sulfur	ppm	ASTM D5185m	2600	2767	2802	2302
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	12	9	<u>49</u>
Sodium	ppm	ASTM D5185m		4	3	2
Potassium	ppm	ASTM D5185m	>20	21	16	83
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.1	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5	19.4	23.7
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.7	16.2	23.0
Base Number (BN)	mg KOH/g	ASTM D2896		5.5	6.7	6.3



OIL ANALYSIS REPORT







Certificate 12367

Sample No.

Lab Number : 06219391 Unique Number : 11097588 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0124563

Received : 25 Jun 2024 **Tested** : 25 Jun 2024 Diagnosed

: 26 Jun 2024 - Don Baldridge

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 - GEORGETOWN

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US 19947 Contact: ROBERT LOCKWOOD Robert.Lockwood@Perdue.com

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