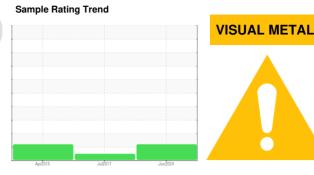


OIL ANALYSIS REPORT



Area
FUEL
Machine Id 311 **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (42 QTS)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Moderate concentration of visible metal present. 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 acceptable for the time in service.

SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0109602	PCA70891411	PCA14615003
Sample Date		Client Info		17 Jun 2024	26 Jul 2017	04 Apr 2015
Machine Age	mls	Client Info		558700	176394	24473
Oil Age	mls	Client Info		16000	14130	24473
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<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	>65	31	10	45
Chromium	ppm	ASTM D5185m	>5	2	1	2
Nickel	ppm	ASTM D5185m	>3	<1	0	<u>^</u> 2
Titanium	ppm	ASTM D5185m	>5	<1		
Silver	ppm	ASTM D5185m	>2	<1	0	1
Aluminum	ppm	ASTM D5185m	>35	21	9	13
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>180	3	2	376
Tin	ppm	ASTM D5185m	>8	<1	0	7
Antimony	ppm	ASTM D5185m	>35		0	
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	15	1	33
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	50	39	60	51
Manganese	ppm	ASTM D5185m	0	<1		
Magnesium	ppm	ASTM D5185m	950	257	938	852
Calcium	ppm	ASTM D5185m	1050	1885	1066	1291
Phosphorus	ppm	ASTM D5185m	995	852	951	903
Zinc	ppm	ASTM D5185m	1180	1105	1136	1122
Sulfur	ppm	ASTM D5185m	2600	3245	2679	2363
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	7	1	5
Sodium	ppm	ASTM D5185m		2	2	10
Potassium	ppm	ASTM D5185m	>20	9	11	39
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	7.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0		
FLUID DEGRAD	OATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4		
Base Number (BN)	mg KOH/g	ASTM D2896		7.96		N/A
2000 (DIV)	mg normg			7.00		1 4/7 1



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: PCA0109602 **Lab Number** : 06230405 Unique Number : 11113898

Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Jul 2024 **Tested** : 09 Jul 2024

Diagnosed : 10 Jul 2024 - Don Baldridge

DENNIS K BURKE INC - INTERNAL SAMPLES

555 CONSTITUTION DR TAUNTON, MA US 02780

Contact: GREG DUNKER

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

 st - 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: DENTAU [WUSCAR] 06230405 (Generated: 07/10/2024 10:41:32) Rev: 1

Submitted By: JOHN MEDEIROS

F: (617)889-6422