

OIL ANALYSIS REPORT



Diesel Engine

PETRO CANADA DURON SHP 10W30 (42 QTS)

Sample Rating Trend **VISUAL METAL**

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

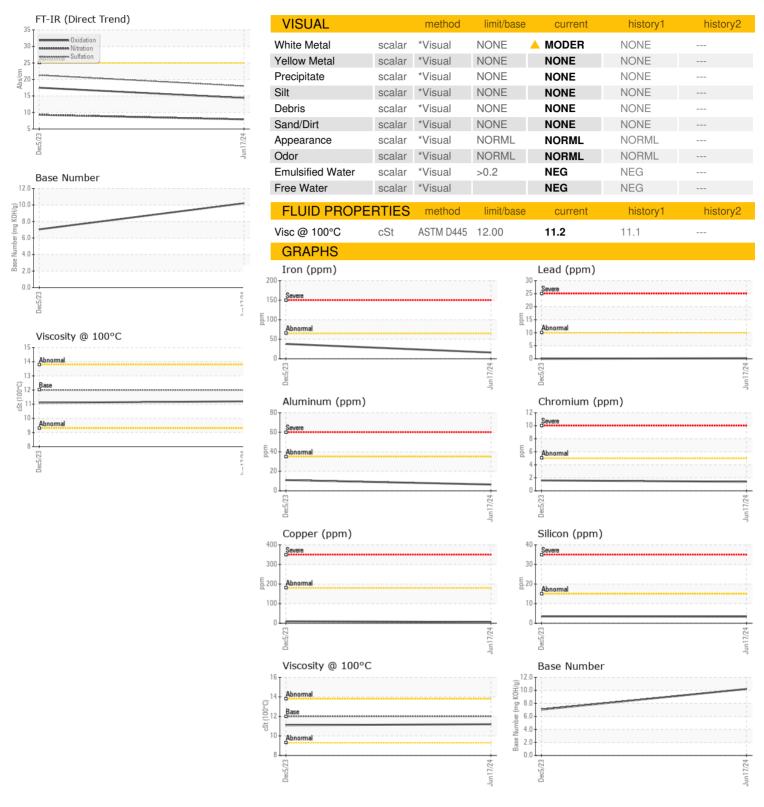
Fluid Condition

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.

QTS)			Dec2023	Jun2024		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0098657	PCA0109587	
Sample Date		Client Info		17 Jun 2024	05 Dec 2023	
Machine Age	mls	Client Info		213087	197515	
Oil Age	mls	Client Info		16000	16000	
Oil Changed		Client Info		Changed	Changed	
Sample Status				ABNORMAL	NORMAL	
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>65	16	38	
Chromium	ppm	ASTM D5185m	>5	1	2	
Nickel	ppm	ASTM D5185m	>3	<1	0	
Titanium	ppm	ASTM D5185m	>5	<1	0	
Silver	ppm	ASTM D5185m	>2	<1	0	
Aluminum	ppm	ASTM D5185m	>35	6	11	
Lead	ppm	ASTM D5185m	>10	<1	0	
Copper	ppm	ASTM D5185m	>180	6	10	
Tin	ppm	ASTM D5185m	>8	<1	0	
Vanadium	ppm	ASTM D5185m		<1	<1	
Cadmium	ppm	ASTM D5185m		<1	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	8	4	
Barium	ppm	ASTM D5185m	0	0	0	
Molybdenum	ppm	ASTM D5185m	50	59	63	
Manganese	ppm	ASTM D5185m	0	<1	<1	
Magnesium	ppm	ASTM D5185m	950	939	938	
Calcium	ppm	ASTM D5185m	1050	1115	1126	
Phosphorus	ppm	ASTM D5185m	995	959	936	
Zinc	ppm	ASTM D5185m	1180	1244	1223	
Sulfur	ppm	ASTM D5185m	2600	2956	2609	
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	4	
Sodium	ppm	ASTM D5185m		0	3	
Potassium	ppm	ASTM D5185m	>20	6	6	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.6	
Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.3	
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.0	21.3	
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.4	17.5	
Base Number (BN)	mg KOH/g	ASTM D2896		10.21	7.05	



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Certificate 12367

Laboratory Sample No.

Lab Number : 06230407 Unique Number : 11113900 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0098657 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)

F: (617)889-6422