

OIL ANALYSIS REPORT



Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

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

Wear

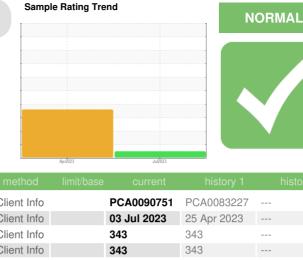
Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

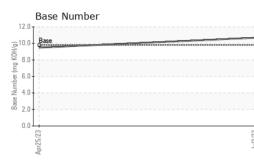
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

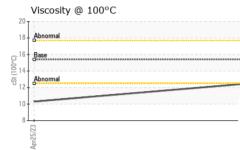


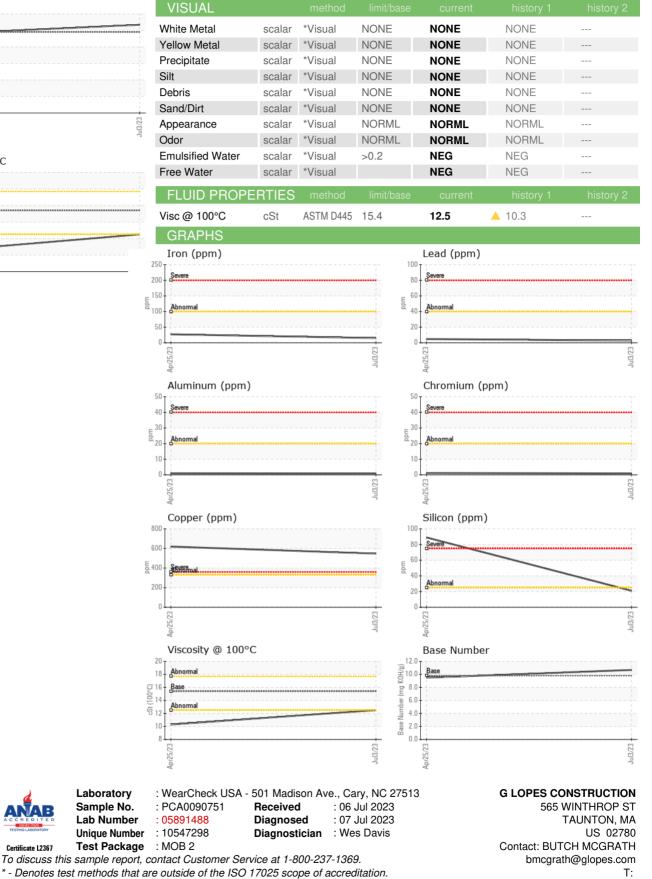
AL)			Apr2023	Jul2023		
SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Sample Number		Client Info		PCA0090751	PCA0083227	
Sample Date		Client Info		03 Jul 2023	25 Apr 2023	
Machine Age	hrs	Client Info		343	343	
Oil Age	hrs	Client Info		343	343	
Oil Changed		Client Info		N/A	N/A	
Sample Status				NORMAL	ABNORMAL	
CONTAMINAT	ION	method	limit/base	current	history 1	history 2
Fuel		WC Method	>5	<1.0	3 .8	
Glycol		WC Method		NEG	NEG	
WEAR METAL	S	method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>100	15	27	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		1	0	
Silver	ppm	ASTM D5185m	>3	1	0	
Aluminum	ppm	ASTM D5185m	>20	<1	1	
Lead	ppm	ASTM D5185m	>40	3	5	
Copper	ppm	ASTM D5185m	>330	547	6 19	
Tin	ppm	ASTM D5185m	>15	4	7	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m	0	4	47	
Barium	ppm	ASTM D5185m	0	2	0	
Molybdenum	ppm	ASTM D5185m	60	58	40	
Vanganese	ppm	ASTM D5185m	0	<1	4	
Magnesium	ppm	ASTM D5185m	1010	845	451	
Calcium	ppm	ASTM D5185m	1070	1124	1600	
Phosphorus	ppm	ASTM D5185m	1150	985	883	
Zinc	ppm	ASTM D5185m	1270	1151	1074	
Sulfur	ppm	ASTM D5185m	2060	2814	3105	
CONTAMINAN	TS	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	21	A 89	
Sodium	ppm	ASTM D5185m		0	2	
Potassium	ppm	ASTM D5185m	>20	2	2	
INFRA-RED		method	limit/base	current	history 1	history 2
Soot %	%	*ASTM D7844	>3	0.3	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	21.6	
FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.1	20.9	
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	10.68	9.49	



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Laboratory

Sample No.

F:

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