

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id **326731**

Component **Diesel Engine**

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

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

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. No other contaminants were detected in the oil.

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.

AL)				Sep2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0099115		
Sample Date		Client Info		15 Sep 2023		
fachine Age	mls	Client Info		70000		
Dil Age	mls	Client Info		70000		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0		
ilycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
on	ppm	ASTM D5185m	>100	146		
hromium	ppm	ASTM D5185m	>20	5		
lickel	ppm	ASTM D5185m	>4	<1		
itanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
lluminum	ppm	ASTM D5185m	>20	42		
ead	ppm	ASTM D5185m	>40	<1		
Copper	ppm	ASTM D5185m	>330	16		
in	ppm	ASTM D5185m	>15	2		
anadium/	ppm	ASTM D5185m		0		
admium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	7		
arium	ppm	ASTM D5185m	0	0		
Nolybdenum	ppm	ASTM D5185m	50	75		
1anganese	ppm	ASTM D5185m	0	4		
lagnesium	ppm	ASTM D5185m	950	1095		
Calcium	ppm	ASTM D5185m	1050	1483		
hosphorus	ppm	ASTM D5185m	995	1182		
linc	ppm	ASTM D5185m	1180	1458		
Sulfur	ppm	ASTM D5185m	2600	3363		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	11		
odium	ppm	ASTM D5185m		7		
otassium	ppm	ASTM D5185m	>20	67		
INFRA-RED		method	limit/base	current	history1	history2
oot %	%	*ASTM D7844	>3	8.0		
litration	Abs/cm	*ASTM D7624	>20	19.5		
Sulfation	Abs/.1mm	*ASTM D7415	>30	37.1		
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	39.1		
Base Number (BN)	mg KOH/g	ASTM D2896		4.3		



OIL ANALYSIS REPORT





Test Package : MOB 1 (Additional Tests: TBN)

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)

Contact: JOHN KEEN jkeen@millertransgroup.com

T: F: (856)696-5629

Certificate L2367