

OIL ANALYSIS REPORT

Sample Rating Trend **WEAR**

Machine Id **438762**

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (--- 0

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

The iron level is abnormal. 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.

TS)				Dec2023		
SAMPLE INFORMA	TION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0113628		
Sample Date		Client Info		15 Dec 2023		
	าไร	Client Info		0		
Dil Age m	nls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0		
Vater		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron p	pm	ASTM D5185m	>100	137		
Chromium p	pm	ASTM D5185m	>20	3		
Nickel p	pm	ASTM D5185m	>4	0		
Γitanium p	pm	ASTM D5185m		0		
Silver p	pm	ASTM D5185m	>3	0		
Aluminum p	pm	ASTM D5185m	>20	39		
_ead p	pm	ASTM D5185m	>40	0		
·	pm	ASTM D5185m	>330	35		
	pm	ASTM D5185m	>15	2		
	pm	ASTM D5185m		0		
	pm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron p	pm	ASTM D5185m	2	13		
	pm	ASTM D5185m	0	0		
	pm	ASTM D5185m	50	55		
	pm	ASTM D5185m	0	10		
	pm	ASTM D5185m	950	763		
	pm		1050	1946		
	pm	ASTM D5185m	995	960		
· ·	pm	ASTM D5185m	1180	1235		
	pm	ASTM D5185m	2600	3066		
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon p	pm	ASTM D5185m	>25	12		
	pm	ASTM D5185m		9		
	pm	ASTM D5185m	>20	67		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	6	*ASTM D7844	>3	1		
	bs/cm	*ASTM D7624	>20	14.8		
	bs/.1mm	*ASTM D7415		26.7		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation Al	bs/.1mm	*ASTM D7414	>25	28.7		
		ASTM D2896	2.0	6.7		
Dase Mulliber (DIN)	y NOH/y	70 LINI D5020		0.7		



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