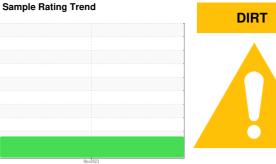


OIL ANALYSIS REPORT



Machine Id **745852**

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

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

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)				Nov2023		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number	7111011	Client Info		PCA0097360		
Sample Date		Client Info		17 Nov 2023		
	mls	Client Info		27763		
	mls	Client Info		27763		
Oil Age Oil Changed	11115	Client Info		Changed		
-		Client inio		ABNORMAL		
Sample Status						
CONTAMINATION	NC	method	limit/base	current	history1	history2
uel		WC Method	>5	<1.0		
Vater		WC Method	>0.2	NEG		
Slycol		WC Method		NEG		
WEAR METALS)	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>100	71		
Chromium	ppm	ASTM D5185m	>20	2		
Nickel	ppm	ASTM D5185m	>4	<1		
- itanium	ppm	ASTM D5185m		<1		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	35		
_ead	ppm	ASTM D5185m	>40	5		
Copper	ppm	ASTM D5185m	>330	22		
- in	ppm	ASTM D5185m	>15	4		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	26		
Barium	ppm	ASTM D5185m	0	6		
Molybdenum	ppm	ASTM D5185m	50	13		
	ppm	ASTM D5185m	0	7		
	ppm	ASTM D5185m	950	785		
ŭ .	ppm	ASTM D5185m	1050	1349		
	ppm	ASTM D5185m	995	778		
Zinc	ppm	ASTM D5185m	1180	866		
-	ppm	ASTM D5185m		2871		
CONTAMINANT	S	method	limit/base	current	history1	history2
	ppm	ASTM D5185m		△ 45		
Sodium	ppm	ASTM D5185m		6		
Potassium	ppm	ASTM D5185m	>20	110		
INFRA-RED		method	limit/base	current	history1	history2
	%	*ASTM D7844	>3	0.3		
	Abs/cm	*ASTM D7624	>20	11.6		
	Abs/.1mm	*ASTM D7415		24.4		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	Abs/.1mm	*ASTM D7414		23.3		
		ASTM D7414 ASTM D2896	<i>></i> 20			
Base Number (BN)	mg KOH/g	49 I IVI D2896		4.7		

Contact/Location: RON ROBERTS - MILLAN



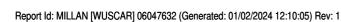
OIL ANALYSIS REPORT



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)



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