

OIL ANALYSIS REPORT

Sample Rating Trend



WESTERN STAR 19

Diesel Engine

Fluid PETRO CANADA DURON SAE 10W30 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elevated aluminum (AI) 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. There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service. $\label{eq:condition}$

IAL)				Apr2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0073149		
Sample Date		Client Info		13 Apr 2023		
Machine Age	kms	Client Info		336229		
Oil Age	kms	Client Info		67998		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIC	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
ron p	opm	ASTM D5185(m)	>200	23		
	opm	ASTM D5185(m)	>20	2		
	opm	ASTM D5185(m)	>2	- <1		
	opm	ASTM D5185(m)		<1		
	opm	ASTM D5185(m)	>2	<1		
	opm	ASTM D5185(m)		14		
	opm	ASTM D5185(m)	>30	<1		
-	opm	ASTM D5185(m)		15		
	opm	ASTM D5185(m)	>15	<1		
1	opm	ASTM D5185(m)	210	0		
	opm	ASTM D5185(m)		0		
	opm	ASTM D5185(m)		0		
	opm	ASTM D5185(m)		0		
ADDITIVES	- 1-	method	limit/base	current	history1	history2
_	anm	ASTM D5185(m)	1	8		
1	opm opm	()	1	0		
		ASTM D5185(m)	1	56		
	opm	()	1	50 <1		
	opm	ASTM D5185(m)		240		
	opm	. /	10			
	opm	ASTM D5185(m)	2942	2268		
	opm	ASTM D5185(m)	1102	1097		
	opm	ASTM D5185(m)	1351	1280		
	opm	ASTM D5185(m) ASTM D5185(m)	3903	2782 <1		
	opm	× 7	1			
CONTAMINANT		method	limit/base	current	history1	history2
	opm	ASTM D5185(m)	>30	4		
	opm	ASTM D5185(m)	00	3		
	opm	ASTM D5185(m)	>20	29		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5		
Nitration A	Abs/cm	ASTM D7624*	>20	11.2		
	Abs/.1mm	ASTM D7415*	>30	25.9		
Sulfation A						
FLUID DEGRADA		method	limit/base	current	history1	history2
FLUID DEGRADA		method ASTM D7414*	limit/base >25	current 20.0	history1	history2

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