

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL

30086 (AL421)

Component Front Diesel Engine Fluid

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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

L)				Apr2023		
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0075267		
Sample Date		Client Info		25 Apr 2023		
Machine Age	hrs	Client Info		1013		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>130	48		
Chromium	ppm	ASTM D5185(m)	>10	<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Titanium I	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	<1		
	ppm	ASTM D5185(m)	>20	4		
	ppm	ASTM D5185(m)	>20	<1		
	ppm	ASTM D5185(m)	>125	6		
Γin I	ppm	ASTM D5185(m)	>4	<1		
	ppm	ASTM D5185(m)		0		
	ppm	ASTM D5185(m)		0		
	ppm	ASTM D5185(m)		0		
	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	23		
Barium I	ppm	ASTM D5185(m)	0	1		
/lolybdenum	ppm	ASTM D5185(m)	60	57		
langanese	ppm	ASTM D5185(m)	0	1		
/lagnesium	ppm	ASTM D5185(m)	1010	892		
Calcium	ppm					
Phosphorus		ASTM D5185(m)	1070	1118		
103010103	ppm	ASTM D5185(m) ASTM D5185(m)	1070 1150	1118 875		
	ppm ppm	ASTM D5185(m)				
Zinc	ppm	ASTM D5185(m) ASTM D5185(m)	1150	875 1111		
Zinc I Sulfur I	ppm ppm	ASTM D5185(m)	1150 1270	875		
Zinc I Sulfur I	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1150 1270	875 1111 2344 <1		
Zinc Sulfur Lithium CONTAMINANT	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	1150 1270 2060 limit/base	875 1111 2344 <1 current		
Zinc Sulfur Sulfur Solowick CONTAMINANT	ppm ppm ppm S	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	1150 1270 2060	875 1111 2344 <1	 history1	 history2
Zinc Sulfur Lithium CONTAMINANT Silicon Sodium	ppm ppm ppm S ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1150 1270 2060 limit/base >25	875 1111 2344 <1 current 6	 history1	 history2
Zinc Sulfur Sulfur Solfur Solf	ppm ppm ppm S	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	1150 1270 2060 limit/base	875 1111 2344 <1 <u>current</u> 6 4	 history1 	 history2
Zinc Sulfur Lithium CONTAMINANT Silicon Sodium Potassium	ppm ppm ppm S ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1150 1270 2060 limit/base >25 >20	875 1111 2344 <1 <u>current</u> 6 4 1 1 ▲ 3.5	 history1 	 history2
Zinc Sulfur Sulfur Sulfur Sulfur Solfur Solf	ppm ppm ppm S ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	1150 1270 2060 limit/base >25 >20 >3.0 limit/base	875 1111 2344 <1 current 6 4 1 1 ▲ 3.5 current	 history1 	 history2
Zinc Sulfur Sulfur Sulfur Sulfur Silicon Sodium Sodium Sulfur Soot %	ppm ppm S ppm ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	1150 1270 2060 Iimit/base >25 >20 >3.0 Iimit/base >6	875 1111 2344 <1 current 6 4 1 ▲ 3.5 current 0.8	 history1 history1	 history2 history2
Zinc Sulfur Sulfur Sulfur Sulfur Sulfur Silicon Sodium Potassium Fuel Soot % Soot % Soot % Soot %	ppm ppm ppm ppm ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	1150 1270 2060 limit/base >25 >20 >3.0 limit/base	875 1111 2344 <1 current 6 4 1 1 ▲ 3.5 current	 history1 history1 	 history2 history2 history2
Zinc Sulfur Sulfur Sulfur Sulfur Sulfur Soliton Sodium Sodium Sodium Sulfur Sulfur Soot % Soot % Sulfuration A substance of the substance of t	ppm ppm S ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* Method ASTM D7624* ASTM D7624*	1150 1270 2060 Imit/base >25 >20 >3.0 Imit/base >6 >20	875 1111 2344 <1 current 6 4 1 ▲ 3.5 current 0.8 11.8 24.9	 history1 history1 history1	 history2 history2 history2
Zinc Sulfur Sulfur Sulfur CONTAMINANT Silicon Sodium Potassium Sulfur Soot % Soot % Sulfation Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm % % Abs/cm Abs/cm Abs/1mm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593* Method ASTM D7624* ASTM D7624*	1150 1270 2060 Iimit/base >25 >20 >3.0 Iimit/base >6 >20 >20	875 1111 2344 <1 current 6 4 1 ▲ 3.5 current 0.8 11.8 24.9	 history1 history1 	 history2 history2 history2

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