

PROBLEM SUMMARY

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

CATERPILLAR CAT C7

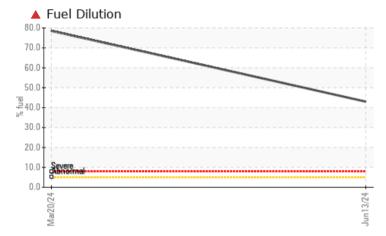
Sample Rating Trend
FUEL

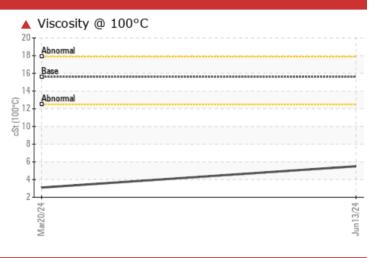
COMPONENT CONDITION SUMMARY

Machine Id

Fluid

Diesel Engine





RECOMMENDATION

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	
Fuel	%	ASTM D3524	>5	43.0	▲ 78.5	
Visc @ 100°C	cSt	ASTM D445	15.6	▲ 5.5	▲ 3.1	

Customer Id: ROLMIL Sample No.: DLE0000003 Lab Number: 06219144 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Fluid			?	We recommend that you drain the oil from the component if this has not already been done.	
Resample			?	We recommend an early resample to monitor this condition.	
Check Fuel/injector System			?	We advise that you check the fuel injection system.	

HISTORICAL DIAGNOSIS



20 Mar 2024 Diag: Wes Davis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.





OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Machine Id **CATERPILLAR CAT C7**

Diesel Engine			-				
PETRO CANADA DU		-		Mar2024	Jun2024		
DIAGNOSIS	SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		DLE000003	DLE0000001	
e advise that you check the fuel injection system.	Sample Date		Client Info		13 Jun 2024	20 Mar 2024	
e recommend that you drain the oil from the mponent if this has not already been done. We	Machine Age	hrs	Client Info		0	0	
commend an early resample to monitor this	Oil Age	hrs	Client Info		5000	0	
ondition.	Oil Changed		Client Info		N/A	N/A	
ear	Sample Status				SEVERE	SEVERE	
component wear rates are normal.	CONTAMINATIO	N	method	limit/base	current	history1	history2
Contamination	Water		WC Method	>0.2	NEG	NEG	
nere is a high amount of fuel present in the oil.	Glycol		WC Method		NEG	NEG	
ests confirm the presence of fuel in the oil.	WEAR METALS		method	limit/base	current	history1	history2
Fluid Condition The BN result indicates that there is suitable	Iron	ppm	ASTM D5185m		6	11	
kalinity remaining in the oil. Fuel is present in the	Chromium	ppm ppm	ASTM D5185m		0	<1	
and is lowering the viscosity. The oil is no longer	Nickel		ASTM D5185m		0	0	
erviceable due to the presence of contaminants.	Titanium	ppm ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		1	3	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm	ASTM D5185m		1	6	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	210	<1	<1	
	Cadmium	ppm	ASTM D5185m		0	0	
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m		141	6	
	Barium	ppm ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		28	19	
	Manganese	ppm	ASTM D5185m		<1	0	
	Magnesium	ppm	ASTM D5185m		361	286	
	Calcium	ppm	ASTM D5185m		857	324	
	Phosphorus	ppm	ASTM D5185m		560	326	
	Zinc	ppm	ASTM D5185m		643	388	
	Sulfur	ppm	ASTM D5185m		2263	1090	
	CONTAMINANTS	3	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m		3	2	
	Sodium	ppm	ASTM D5185m	220	2	2	
	Potassium	ppm	ASTM D5185m	>20	1	1	
	Fuel	%	ASTM D3524		4 3.0	▲ 78.5	
	INFRA-RED		method	limit/base		history1	history2
		0/				· · · · ·	
	Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624		0.1	0.1 6.4	
	Sulfation	Abs/cm Abs/.1mm	*ASTM D7624		6.4 16.2	13.9	
	FLUID DEGRAD		method	limit/base	current	history1	history2
	Oxidation	Abs/.1mm	*ASTM D7414	>25	10.3	9.1	

Base Number (BN) mg KOH/g ASTM D2896 9.8



3.4

6.0



OIL ANALYSIS REPORT



Contact/Location: DJ ? - ROLMIL

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