

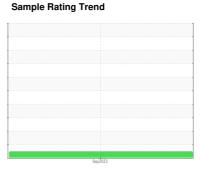
OIL ANALYSIS REPORT



CATERPILLAR D6 LGP 10041 (S/N KEW01161)

Component **Diesel Engine**

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)





Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the

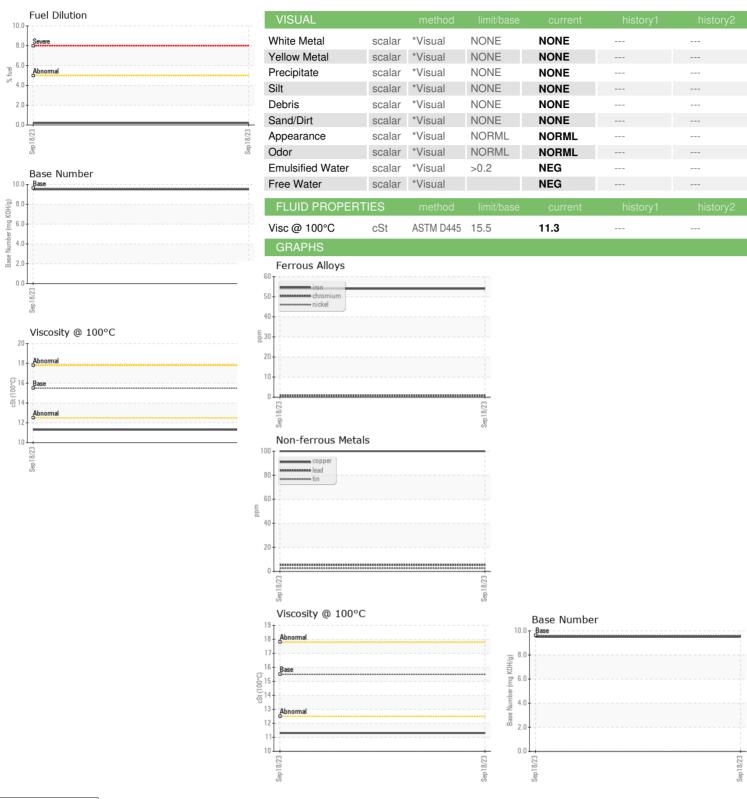
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SYN BLEND 15W40	(GAL)			Sep2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0831330		
Sample Date		Client Info		18 Sep 2023		
Machine Age	hrs	Client Info		675		
Oil Age	hrs	Client Info		675		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	54		
Chromium	ppm	ASTM D5185m	>20	<1		
Nickel	ppm	ASTM D5185m	>2	<1		
Titanium	ppm	ASTM D5185m	>2	0		
Silver	ppm	ASTM D5185m	>2	0		
Aluminum	ppm	ASTM D5185m	>25	14		
Lead	ppm	ASTM D5185m	>40	5		
Copper	ppm	ASTM D5185m	>330	100		
Tin	ppm	ASTM D5185m	>15	2		
Vanadium	ppm	ASTM D5185m	7 10	0		
Cadmium	ppm	ASTM D5185m		0		
	рртт					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	1	26		
Barium	ppm	ASTM D5185m	1	10		
Molybdenum	ppm	ASTM D5185m	60	43		
				43 3		
Molybdenum	ppm	ASTM D5185m	60	43		
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	60	43 3		
Molybdenum Manganese Magnesium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	60 1 1010	43 3 481		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 1 1010 1070	43 3 481 1662		
Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 1 1010 1070 1150	43 3 481 1662 870		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 1 1010 1070 1150 1270	43 3 481 1662 870 1126		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 1 1010 1070 1150 1270 2060	43 3 481 1662 870 1126 3086		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	60 1 1010 1070 1150 1270 2060	43 3 481 1662 870 1126 3086		
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	60 1 1010 1070 1150 1270 2060	43 3 481 1662 870 1126 3086 current	 history1	 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	60 1 1010 1070 1150 1270 2060 limit/base >25	43 3 481 1662 870 1126 3086 current 46 4	 history1	history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	60 1 1010 1070 1150 1270 2060 limit/base >25	43 3 481 1662 870 1126 3086 current 46 4	 history1	history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	60 1 1010 1070 1150 1270 2060 limit/base >25 >20 >5	43 3 481 1662 870 1126 3086 current 46 4 3 0.2	history1	history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D3524	60 1 1010 1070 1150 1270 2060 limit/base >25 >20 >5	43 3 481 1662 870 1126 3086 current 46 4 3 0.2	history1 history1	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm	ASTM D5185m ASTM D7844	60 1 1010 1070 1150 1270 2060 limit/base >25 >20 >5	43 3 481 1662 870 1126 3086 current 46 4 3 0.2 current 0.7	history1 history1 history1	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm	ASTM D5185m ASTM D7844 *ASTM D7844	60 1 1010 1070 1150 1270 2060 limit/base >25 >20 >5	43 3 481 1662 870 1126 3086 current 46 4 3 0.2 current 0.7 8.3	history1 history1	history2 history2
Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	60 1 1010 1070 1150 1270 2060 limit/base >25 >20 >5 limit/base >3 >20 >30	43 3 481 1662 870 1126 3086	history1 history1	history2 history2



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 05965067 : 10671618

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0831330

Received

: 29 Sep 2023 : 03 Oct 2023 Diagnosed Diagnostician : Sean Felton

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) 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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