

OIL ANALYSIS REPORT

Sample Rating Trend

WEAR

Machine Id 4535

Component Front Diesel Engine

PETRO CANADA DURON XL SYN BLEND 15W40 (22 LTR)

DIAGNOSIS

Recommendation

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

🔺 Wear

Chromium and iron ppm levels are abnormal. Cylinder, crank, or cam shaft wear is indicated. Ring wear is indicated.

Contamination

There is a moderate amount of fuel present in the oil. Light concentration of carbon/soot present in the oil. Tests confirm the presence of fuel in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

5W40 (22 LTR)		Apr2016	AprŽ017 MarŽ018 NovŽ0	18 Nov2021 Apr2022 Mar202	Jui2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0084281	GFL0070739	GFL0049117
Sample Date		Client Info		19 Jul 2023	07 Mar 2023	14 Apr 2022
Machine Age	kms	Client Info		282398	9154	0
Oil Age	kms	Client Info		0	279	147
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
PQ		ASTM D8184*		2		
ron	ppm	ASTM D5185(m)	>127	<u> </u>	60	8
Chromium	ppm	ASTM D5185(m)	>3	<u> </u>	A 3	<1
Nickel	ppm	ASTM D5185(m)	>30	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>59	8	<u> </u>	2
_ead	ppm	ASTM D5185(m)	>29	7	4	2
Copper	ppm	ASTM D5185(m)	>135	5	7	6
Гin	ppm	ASTM D5185(m)	>2	1	2	<1
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		<1	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	2	5	31
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	53	57	69
Manganese	ppm	ASTM D5185(m)	1	2	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	851	851	641
Calcium	ppm	ASTM D5185(m)	1070	907	1057	1366
Phosphorus	ppm	ASTM D5185(m)	1150	924	1005	979
Zinc	ppm	ASTM D5185(m)	1270	1047	1085	1112
Sulfur	ppm	ASTM D5185(m)	2060	2049	2379	2742
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	ITS	method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)	>18	8	1 9	10
Silicon				2	3	2
	ppm	ASTM D5185(m)				
Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>20	1	3	3
Sodium Potassium			>20 >2.0			
Sodium Potassium	ppm	ASTM D5185(m)		1	3	3
Sodium Potassium Fuel INFRA-RED	ppm	ASTM D5185(m) ASTM D7593*	>2.0	1 ▲ 4.5	3 <1.0	3 0.7
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm %	ASTM D5185(m) ASTM D7593* method	>2.0 limit/base >3	1 4.5 current	3 <1.0 history1	3 0.7 history2



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