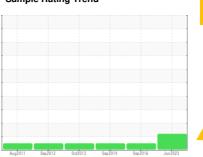


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL

SPARTAN R5422/25013

Right Diesel Engine

PETRO CANADA DURON HP 15W40 (20 LT

DIAGNOSIS

Recommendation

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

Metal levels are typical for a new component breaking in.

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.

ΓR)		Aug2011	Sen 2012 Oct 2013	Sen2014 Sen2016	Jun 2023	
SAMPLE INFORI	MATION		limit/base	current	history1	history2
Sample Number		Client Info		PC0075294	AP103312	AP92460
Sample Date		Client Info		27 Jun 2023	30 Sep 2016	09 Sep 2014
Machine Age	kms	Client Info		13941	13433	114266
Oil Age	kms	Client Info		0	0	0
Oil Changed	KIIIS	Client Info		Changed	Changed	Changed
Sample Status		Client inio		ABNORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol	1011	WC Method	mm base	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
						•
Iron	ppm	ASTM D5185(m)	>90	22	25	24
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	3	3
Lead	ppm	ASTM D5185(m)	>40	3	3	2
Copper	ppm	ASTM D5185(m)	>330	<1	5	3
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	5	44	47
Barium	ppm	ASTM D5185(m)	0	<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	61	2	3
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	966	11	23
Calcium	ppm	ASTM D5185(m)	1070	1037	2510	2346
Phosphorus	ppm	ASTM D5185(m)	1150	994	1007	994
Zinc	ppm	ASTM D5185(m)	1270	1194	1227	1161
Sulfur	ppm	ASTM D5185(m)	2060	2512	3343	3409
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	5	39
Sodium	ppm	ASTM D5185(m)		1	4	2
Potassium	ppm	ASTM D5185(m)	>20	0	3	<1
Fuel	%	ASTM D7593*	>3.0	4.4	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0	0.3	0.6
Nitration	Abs/cm	ASTM D7624*	>20	7.8	9.2	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.8	23.1	23.2
FLUID DEGRAI	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.1	17.8	17.7



OIL ANALYSIS REPORT







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

: 5671196

: PC0075294 : 02594117

Received Diagnosed

: 07 Nov 2023 Diagnostician : Wes Davis

: 06 Nov 2023

Test Package : MOB 1 (Additional Tests: FuelDilution, KV40, PercentFuel, VI)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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