

OIL ANALYSIS REPORT

2010 SPARTAN P322 25040

Right Diesel Engine

CASTROL HYPURON 15W40 (25 LTR)

DIAGNOSIS

Recommendation

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.

Wear

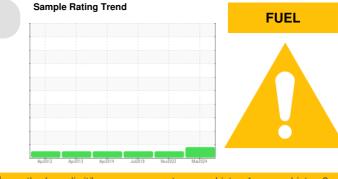
All component wear rates are normal.

Contamination

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

Fluid Condition

The oil is no longer serviceable due to the presence of contaminants.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0085023	PC0067594	AP104489
Sample Date		Client Info		25 Mar 2024	18 Nov 2022	17 Jul 2018
Machine Age	kms	Client Info		165264	0	63153
Oil Age	kms	Client Info		0	6	0
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATIO	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	21	14	20
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>15	2	1	3
Lead	ppm	ASTM D5185(m)	>25	0	<1	3
Copper	ppm	ASTM D5185(m)	>100	2	5	9
Tin	ppm	ASTM D5185(m)	>4	0	<1	0
Antimony	ppm	ASTM D5185(m)	27	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES	ppm	method	limit/base	current	history1	history2
			IIIIII/Dase			
Boron	ppm	ASTM D5185(m)		2	8	13
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		55	58	39
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		880	955	572
Calcium	ppm	ASTM D5185(m)		1004	1033	1615
Phosphorus	ppm	ASTM D5185(m)		887	1050	969
Zinc	ppm	ASTM D5185(m)		1079	1170	1203
Sulfur	ppm	ASTM D5185(m)		2353	2606	2910
Lithium	ppm	ASTM D5185(m)		<1	<1	0
CONTAMINANT	ΓS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	6
Sodium	ppm	ASTM D5185(m)		12	3	3
Potassium	ppm	ASTM D5185(m)	>20	2	1	5
Fuel	%	ASTM D7593*	>3.0	<u> </u>	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.8	0.3	0.6
Nitration	Abs/cm	ASTM D7624*	>20	11.5	8.9	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6	23.2	27.2



Anr4/12

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Base

Abnormal 13

Viscosity @ 40°C

Viscosity @ 100°C

OIL ANALYSIS REPORT

FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	26.4	20.7	22.5
VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	110	87.8	92.0	
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	12.6	12.9	14.3
Viscosity Index (VI)	Scale	ASTM D2270*	140	140	137	
GRAPHS						

Iron (ppm)

Aar25/24

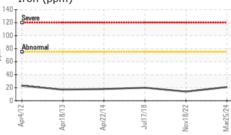
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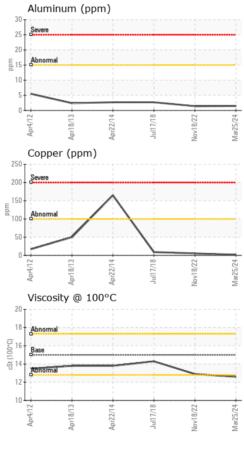
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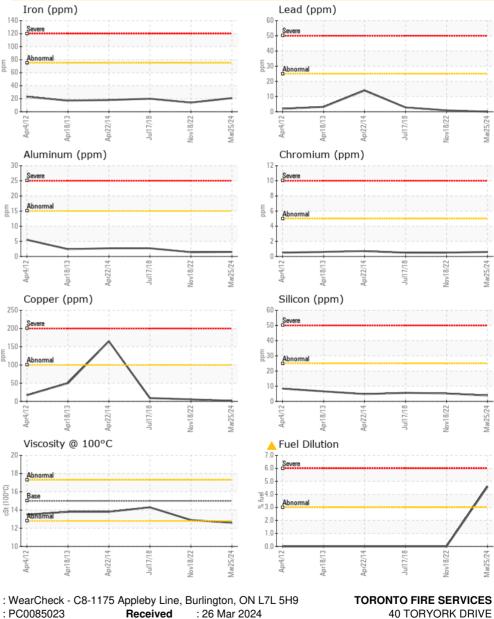
Received

Diagnosed

: 27 Mar 2024

: 27 Mar 2024 - Kevin Marson

Tested





12 ul17/18 nr4/1: nr22/1 nrl Viscosity @ 40°C 140 13 120 (0.00) (0 Abnorma 90 80 Apr4/12 -Apr18/13 . Apr22/14 ul17/18

CALA Sample No. : PC0085023 p Lab Number : 02624578 ISO 17025:2017 Accredited Laboratory Unique Number : 5749697

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.

Laboratory

Contact/Location: Antonio Rodrigues - TFSTOR

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