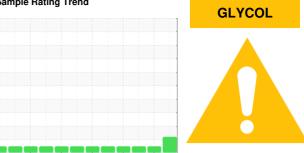


# **OIL ANALYSIS REPORT**

Sample Rating Trend



# SPARTAN 24125 - P111

Component

**Front Diesel Engine** 

**CASTROL HYPURON 15W40 (27 LTR)** 

### **DIAGNOSIS**

### Recommendation

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

All component wear rates are normal.

### Contamination

Water treatment chemicals present, indicating slow coolant leak. Test for glycol is negative. There is no indication of any contamination in the oil.

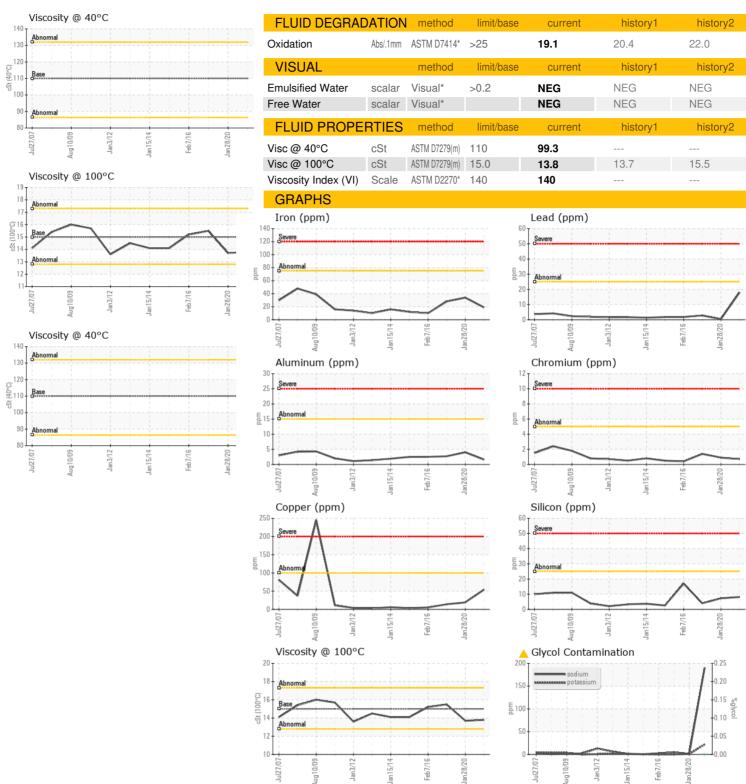
### Fluid Condition

The condition of the oil is acceptable for the time in service (see recommendation).

		Jul2007	Aug2009 Jan2012	Jan2014 Feb2016 J:	in2020	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0075206	AP97002	AP103297
Sample Date		Client Info		25 Oct 2023	28 Jan 2020	12 Jan 2017
Machine Age	hrs	Client Info		12943	1483	148948
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	19	34	28
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>15	2	4	3
Lead	ppm	ASTM D5185(m)	>25	18	<1	3
Copper	ppm	ASTM D5185(m)	>100	54	19	14
Tin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	<1	1
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		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		8	38	39
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		70	63	<1
Manganese	ppm	ASTM D5185(m)		<1	1	<1
Magnesium	ppm	ASTM D5185(m)		926	1023	10
Calcium	ppm	ASTM D5185(m)		988	1112	2570
Phosphorus	ppm	ASTM D5185(m)		900	960	997
Zinc	ppm	ASTM D5185(m)		1143	1230	1280
Sulfur	ppm	ASTM D5185(m)		2250	2779	3403
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	8	7	4
Sodium	ppm	ASTM D5185(m)		<u> </u>	1	5
Potassium	ppm	ASTM D5185(m)	>20	22	<1	0
Glycol	%	ASTM D7922*		0.0	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.6	0.6	0.8
Nitration	Abs/cm	ASTM D7624*	>20	9.7	11.7	11.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.1	27.9	26.8



## **OIL ANALYSIS REPORT**







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

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : PC0075206 : 02603434

: 5696519

Diagnosed Diagnostician : Kevin Marson Test Package : MOB 1 (Additional Tests: Glycol, KV40, VI)

Recieved

: 15 Dec 2023

: 18 Dec 2023

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.

**TORONTO FIRE SERVICES** 

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