

# **OIL ANALYSIS REPORT**

Sample Rating Trend





# SPARTAN 24131 P221

Component

**Rear Diesel Engine** 

**CASTROL HYPURON 15W40 (25 LTR)** 

### DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

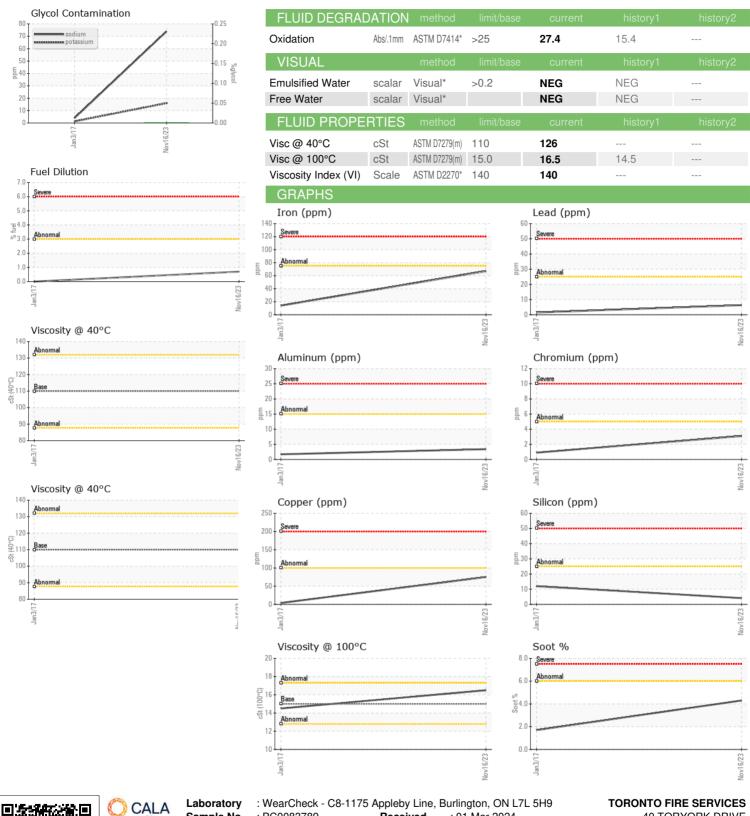
### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

			Jan 2017	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0083789	AP104337	
Sample Date		Client Info		16 Nov 2023	03 Jan 2017	
Machine Age	kms	Client Info		230866	136334	
Oil Age	kms	Client Info		0	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATI	ON	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>75	67	14	
Chromium	ppm	ASTM D5185(m)	>5	3	<1	
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	
Titanium	ppm	ASTM D5185(m)	>2	0	0	
Silver	ppm	ASTM D5185(m)	>2	0	1	
Aluminum	ppm	ASTM D5185(m)	>15	3	2	
Lead	ppm	ASTM D5185(m)	>25	6	2	
Copper	ppm	ASTM D5185(m)	>100	75	4	
Tin	ppm	ASTM D5185(m)	>4	<1	<1	
Antimony	ppm	ASTM D5185(m)		0	1	
Vanadium	ppm	ASTM D5185(m)		0	0	
Beryllium	ppm	ASTM D5185(m)		0	0	
Cadmium	ppm	ASTM D5185(m)		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		13	85	
Barium	ppm	ASTM D5185(m)		0	<1	
Molybdenum	ppm	ASTM D5185(m)		58	61	
Manganese	ppm	ASTM D5185(m)		<1	<1	
Magnesium	ppm	ASTM D5185(m)		928	732	
Calcium	ppm	ASTM D5185(m)		1077	1365	
Phosphorus	ppm	ASTM D5185(m)		984	1005	
Zinc	ppm	ASTM D5185(m)		1185	1218	
Sulfur	ppm	ASTM D5185(m)		2292	2690	
Lithium	ppm	ASTM D5185(m)		<1	<1	
CONTAMINAN	ΓS _	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	12	
Sodium	ppm	ASTM D5185(m)		74	4	
Potassium	ppm	ASTM D5185(m)	>20	16	1	
Fuel	%	ASTM D7593*	>3.0	0.7	<1.0	
Glycol	%	ASTM D7922*		0.0	NEG	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	4.3	1.7	
Nitration	Abs/cm	ASTM D7624*	>20	15.2	9.8	
Sulfation	Abs/.1mm	ASTM D7415*	>30	34.0	24.7	



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ISO 17025:2017 Accredited Laboratory

Sample No. Lab Number

: PC0083789 : 02619143 Unique Number : 5736253

Received **Tested** 

Diagnosed

:01 Mar 2024 : 06 Mar 2024

: 06 Mar 2024 - Kevin Marson

40 TORYORK DRIVE TORONTO, ON CA M9L 1X6

Test Package : MOB 1 ( Additional Tests: FUELDILUTION, Glycol, KV40, PercentFuel, VI Contact: Antonio Rodrigues To discuss this sample report, contact Customer Service at 1-800-268-2131. antonio.rodrigues@toronto.ca

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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