

## **OIL ANALYSIS REPORT**

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Sample Rating Trend



Machine Id

# **JOHN DERE 700-197**

### Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (7 QTS)

#### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORM	<b>/</b> ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0121244	PCA0070805	PCA0050400
Sample Date		Client Info		10 Jun 2024	16 Sep 2022	13 May 2021
Machine Age	hrs	Client Info		2328	1500	997
Oil Age	hrs	Client Info		828	570	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	29	21	22
Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	4	3	2
Lead	ppm	ASTM D5185m	>26	<1	<1	<1
Copper	ppm	ASTM D5185m	>26	10	19	73
Tin	ppm	ASTM D5185m	>4	1	<1	1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	5	3	11
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	63	61	71
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	977	933	994
Calcium	ppm	ASTM D5185m	1070	1172	1094	1145
Phosphorus	ppm	ASTM D5185m	1150	1100	967	1029
Zinc	ppm	ASTM D5185m	1270	1348	1192	1243
Sulfur	ppm	ASTM D5185m	2060	3250	3261	2406
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	4	5	4
Sodium	ppm	ASTM D5185m	>31	4	4	4
Potassium	ppm	ASTM D5185m	>20	2	0	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4	0.4
Nitration	Abs/cm	*ASTM D7624	>20	10.1	9.6	8.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.5	20.9	20.5
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.6	16.9	16.2
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	6.9	9.1	

Contact/Location: MARK STEFFEL - GEMVAL



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Sep16/22

May13/21



To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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Certificate 12367

Laboratory

Sample No.

Contact/Location: MARK STEFFEL - GEMVAL

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