

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **JOHN DEERE 600-167**

### Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (29 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.

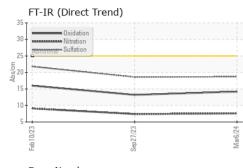
#### Fluid Condition

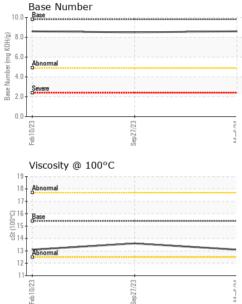
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114638	PCA0106858	PCA0078561
Sample Date		Client Info		06 Mar 2024	27 Sep 2023	10 Feb 2023
Machine Age	hrs	Client Info		2060	1525	1050
Oil Age	hrs	Client Info		530	625	550
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL
CONTAMINAT	ION	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 METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	17	14	36
Chromium	ppm	ASTM D5185m	>11	<1	<1	2
Nickel	ppm	ASTM D5185m	>5	5	<u> </u>	<b>2</b> 9
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>31	1	1	4
Lead	ppm	ASTM D5185m	>26	0	0	<1
Copper	ppm	ASTM D5185m	>26	12	<u> </u>	<b>4</b> 20
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	10	11	344
Barium	ppm	ASTM D5185m	0	0	0	0
Molybdenum	ppm	ASTM D5185m	60	67	69	370
Manganese	ppm	ASTM D5185m	0	<1	1	4
Magnesium	ppm	ASTM D5185m	1010	993	948	1322
Calcium	ppm	ASTM D5185m	1070	1118	1030	2236
Phosphorus	ppm	ASTM D5185m	1150	1058	1020	1438
Zinc	ppm	ASTM D5185m	1270	1286	1242	1780
Sulfur	ppm	ASTM D5185m	2060	3690	3212	4649
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	4	5	16
Sodium	ppm	ASTM D5185m	>31	2	2	6
Potassium	ppm	ASTM D5185m	>20	1	1	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6	0.4	0.5
Nitration	Abs/cm	*ASTM D7624	>20	7.6	7.4	9.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.7	18.6	21.8
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.2	13.2	16.0
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.6	8.5	8.6
	0 - 0					

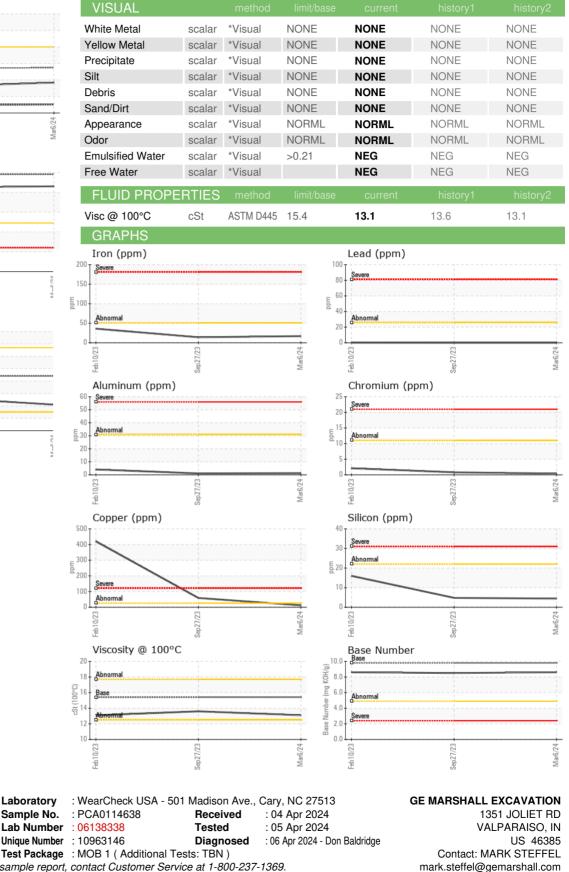


## **OIL ANALYSIS REPORT**





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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)

Report Id: GEMVAL [WUSCAR] 06138338 (Generated: 04/06/2024 11:27:08) Rev: 1

Certificate 12367

Laboratory

Sample No.

Contact/Location: MARK STEFFEL - GEMVAL

T:

F: