

# **OIL ANALYSIS REPORT**

### Sample Rating Trend

# VISCOSITY

# JOHN DEERE 744P LDR016

Component **Diesel Engine** 

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

### DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. The fluid was specified as JOHN DEERE ENGINE OIL PLUS 50 II 15W40, however, a fluid match indicates that this fluid is SAE 20 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

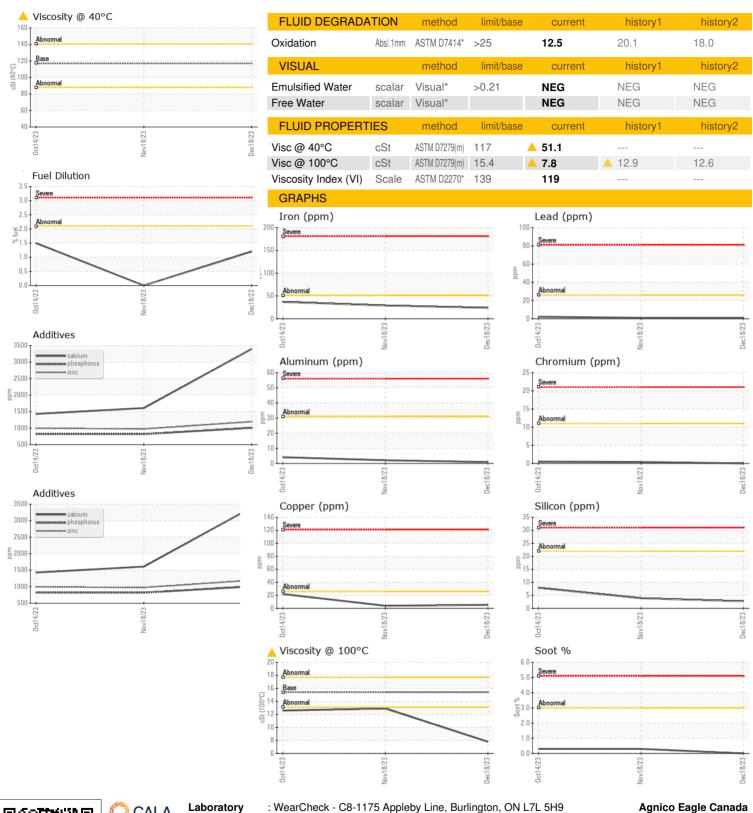
### Fluid Condition

Viscosity of sample indicates oil is within SAE 20 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

l0 ( GAL)		00	2023	Nov2023 Dec20	123	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0879668	WC0865481	WC0861383
Sample Date		Client Info		18 Dec 2023	18 Nov 2023	14 Oct 2023
Machine Age	hrs	Client Info		2513	1873	1195
Oil Age	hrs	Client Info		500	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>51	24	29	37
Chromium	ppm	ASTM D5185(m)	>11	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	2	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>31	<1	2	4
Lead	ppm	ASTM D5185(m)	>26	<1	1	2
Copper	ppm	ASTM D5185(m)	>26	5	4	22
 Γin	ppm	ASTM D5185(m)	>4	0	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
/anadium	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)		4	35	164
Barium	ppm	ASTM D5185(m)		<1	<1	<1
Molybdenum	ppm	ASTM D5185(m)		<1	68	267
Manganese	ppm	ASTM D5185(m)		0	0	<1
Magnesium	ppm	ASTM D5185(m)		94	618	789
Calcium	ppm	ASTM D5185(m)		3396	1608	1430
Phosphorus	ppm	ASTM D5185(m)		1008	818	820
Zinc	ppm	ASTM D5185(m)		1194	974	995
Sulfur	ppm	ASTM D5185(m)		3180	2285	2484
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	3	4	8
Sodium	ppm	ASTM D5185(m)	>31	2	2	3
Potassium	ppm	ASTM D5185(m)	>20	2	0	1
Fuel	%	ASTM D7593*	>2.1	1.2	<1.0	1.5
40.	, 0					
INFRA-RED	,,,	method	limit/base	current	history1	history2
INFRA-RED	%		limit/base >3	current 0	history1	history2
		method				history2 0.3 8.6



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

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

: WC0879668 : 02605374

: 5698459

Recieved Diagnosed Diagnostician : Kevin Marson

: 27 Dec 2023 : 02 Jan 2024

Agnico Eagle Canada 1350 Government Rd. W, MACASSA COMPLEX

Kirkland Lake, ON CA P2N 3J1

Test Package : MOB 1 ( Additional Tests: FuelDilution, KV40, PercentFuel, VI ) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Contact: Mitch Lamontagne AEM\_KL\_macassaoilsampleresults@agnicoeagle.com T: (705)567-5208

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.

Contact/Location: Mitch Lamontagne - KIR370KIR

F: (705)567-5221