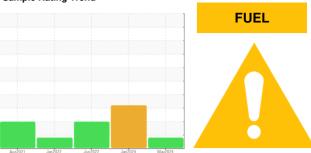


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 500-205

Diesel Engine

PETRO CANADA DURON SHP 15W40 (12 G

DIAGNOSIS

Recommendation

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

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

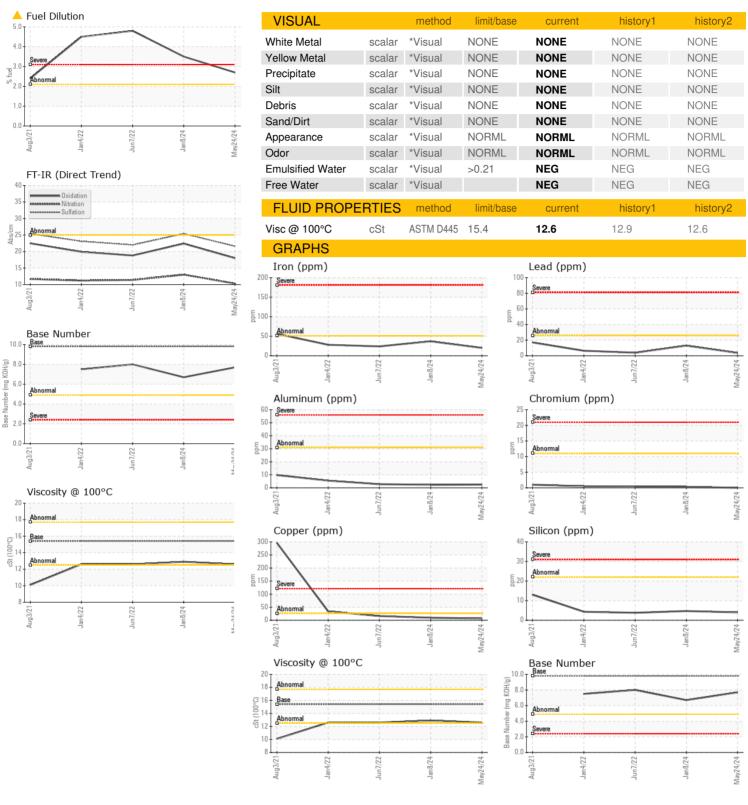
Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

GAL)		Aug2021	Jan 2022	Jun 2022 Jan 2024	May2024	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
	ivi/ (1101)	Client Info	minu bacc	PCA0089604	PCA0089564	PCA0060040
Sample Number		Client Info		24 May 2024	08 Jan 2024	07 Jun 2022
Sample Date Machine Age	hro	Client Info		3320	2834	1500
Oil Age	hrs	Client Info		500	500	500
Oil Changed	1115	Client Info		Changed	Changed	Changed
Sample Status		Client inio		ABNORMAL	ABNORMAL	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.21	NEG	NEG	NEG
Glycol		WC Method	70.21	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	20 0	37	24
Chromium Nickel	ppm	ASTM D5185m	>11	0	<1	<1
	ppm	ASTM D5185m	>5		<1	
Titanium	ppm	ASTM D5185m	0	0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	2	2	3
Lead	ppm	ASTM D5185m	>26	4	13	4
Copper	ppm	ASTM D5185m	>26	7	10	16
Tin	ppm	ASTM D5185m	>4	2	2	3
Antimony	ppm	ASTM D5185m				
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	2	3
Barium	ppm	ASTM D5185m	0	<1	2	0
Molybdenum	ppm	ASTM D5185m	60	58	68	64
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	1010	921	977	883
Calcium	ppm	ASTM D5185m	1070	1173	1050	1185
Phosphorus	ppm	ASTM D5185m	1150	1094	923	1009
Zinc	ppm	ASTM D5185m	1270	1278	1222	1227
Sulfur	ppm	ASTM D5185m	2060	3355	2649	3005
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	4	5	4
Sodium	ppm	ASTM D5185m	>31	19	<u>▲</u> 152	<1
Potassium	ppm	ASTM D5185m	>20	10	△ 65	6
Fuel	%	ASTM D3524	>2.1	<u>^</u> 2.7	▲ 3.5	4.8
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.7	0.6
Nitration	Abs/cm	*ASTM D7624	>20	10.3	13.0	11.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.6	25.4	22.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.0	22.4	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	7.7	6.7	8.0
(5.4)						



OIL ANALYSIS REPORT





Certificate 12367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0089604 Lab Number : 06201169

Unique Number : 11063292

Received : 06 Jun 2024 **Tested** : 10 Jun 2024 Diagnosed : 10 Jun 2024 - Wes Davis

Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

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)

GE MARSHALL EXCAVATION

1351 JOLIET RD VALPARAISO, IN US 46385

Contact: MARK STEFFEL mark.steffel@gemarshall.com

T: F:

Contact/Location: MARK STEFFEL - GEMVAL