

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

JOHN DEERE 500-188

Diesel Engine

Fluid PETRO CANADA DURON SHP 15W40 (7 GAL)

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

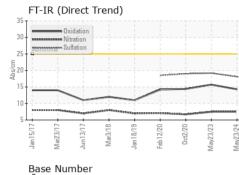
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

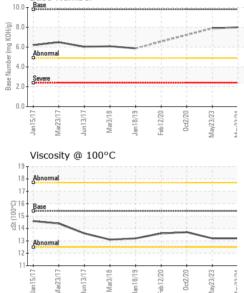
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0089603	PCA0082169	PCA0027477
Sample Date		Client Info		23 May 2024	23 May 2023	02 Oct 2020
Machine Age	hrs	Client Info		6004	5143	4080
Oil Age	hrs	Client Info		500	543	500
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
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	29	33	34
Chromium	ppm	ASTM D5185m	>11	<1	0	1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>31	2	10	0
Lead	ppm	ASTM D5185m	>26	<1	0	1
Copper	ppm	ASTM D5185m	>26	<1	0	2
Tin	ppm	ASTM D5185m	>4	<1	0	<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	3	0	3
Barium	ppm	ASTM D5185m	0	<1	0	0
Molybdenum	ppm	ASTM D5185m	60	55	63	65
Manganese	ppm	ASTM D5185m	0	<1	0	<1
Magnesium	ppm	ASTM D5185m	1010	879	1020	955
Calcium	ppm	ASTM D5185m	1070	1004	1220	1038
Phosphorus	ppm	ASTM D5185m	1150	971	1024	1002
Zinc	ppm	ASTM D5185m	1270	1141	1328	1227
Sulfur	ppm	ASTM D5185m	2060	3109	3480	2596
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	4	2	3
Sodium	ppm	ASTM D5185m	>31	3	2	1
Potassium	ppm	ASTM D5185m	>20	3	2	2
INFRA-RED		method	limit/base		history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.4	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.5	7.5	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.1	19.2	19
FLUID DEGRAD	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.3	15.7	14.4
Base Number (BN)	mg KOH/g	ASTM D2896	9.8	8.0	7.9	
HAGIES Dove 1	3:55) Rev: 1 Contact/Location: MARK STEFFEL - GEMVAL					

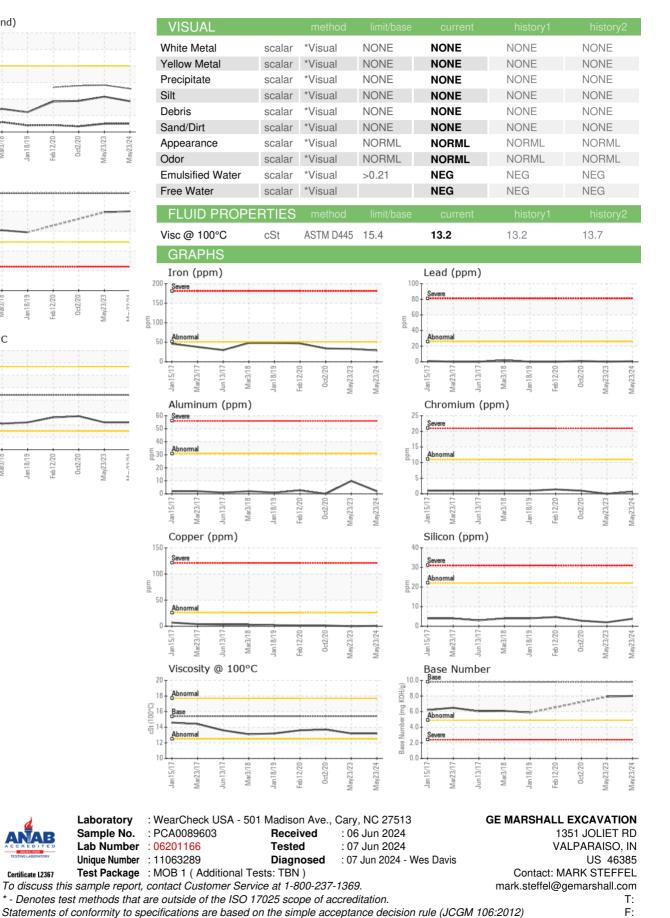
Contact/Location: MARK STEFFEL - GEMVAL



OIL ANALYSIS REPORT







Report Id: GEMVAL [WUSCAR] 06201166 (Generated: 06/07/2024 04:46:55) Rev: 1

Certificate 12367

Laboratory

Contact/Location: MARK STEFFEL - GEMVAL