

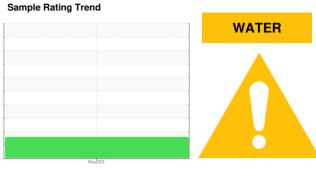
OIL ANALYSIS REPORT

MINING

ME-124 JOHN DEERE 844L 1DW844LXKLF706566

Diesel Engine

SHELL RIMULA SUPER SAE 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a light concentration of water present in the

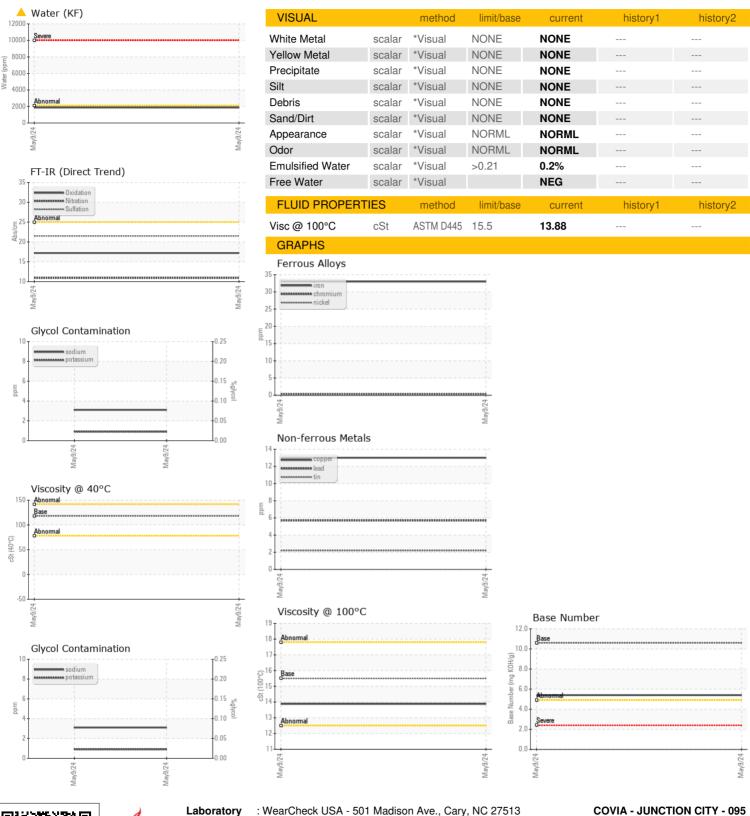
Fluid Condition

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

AL)				May2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0920496		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		8198		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				MARGINAL		
CONTAMINATION	V	method	limit/base	current	history1	history2
Fuel		WC Method	>2.1	<1.0		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	33		
Chromium	ppm	ASTM D5185m	>11	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>31	5		
Lead	ppm	ASTM D5185m	>26	6		
Copper	ppm	ASTM D5185m	>26	13		
Tin	ppm	ASTM D5185m	>4	2		
Vanadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		28		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		75		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		19		
Calcium	ppm	ASTM D5185m	2840	2431		
Phosphorus	ppm	ASTM D5185m	1150	1149		
Zinc	ppm	ASTM D5185m	1270	1450		
Sulfur	ppm	ASTM D5185m	2829	6210		
CONTAMINANTS	,	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	<1		
Sodium	ppm	ASTM D5185m	>31	3		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	%	ASTM D6304	>0.21	<u> </u>		
ppm Water	ppm	ASTM D6304	>2100	1870		
Glycol	%	*ASTM D2982		NEG		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Nitration	Abs/cm	*ASTM D7624	>20	10.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.5		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2		
Base Number (BN)	mg KOH/g	ASTM D2896	10.6	5.4		



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06199605 Unique Number : 11061728

: WC0920496

Received : 04 Jun 2024 **Tested** Diagnosed

: 12 Jun 2024

: 12 Jun 2024 - Jonathan Hester Test Package : CONST (Additional Tests: Glycol, KF, KV40, TBN, VI)

US 31058 Contact: Phil Ivanisin phil.ivanisin@coviacorp.com T: (478)244-7020

1333 SANDPIT ROAD

To discuss this sample report, contact Customer Service at 1-800-237-1369. st - 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)

MAUK, GA