

# WEAR NORMAL CONTAMINATION ABNORMAL FLUID CONDITION ABNORMAL

#### Machine Id **111** Component **Diesel Engine** Fluid **{not provided} (--- QTS) RECOMMENDATION**

We advise that you check the fuel injection system. 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.

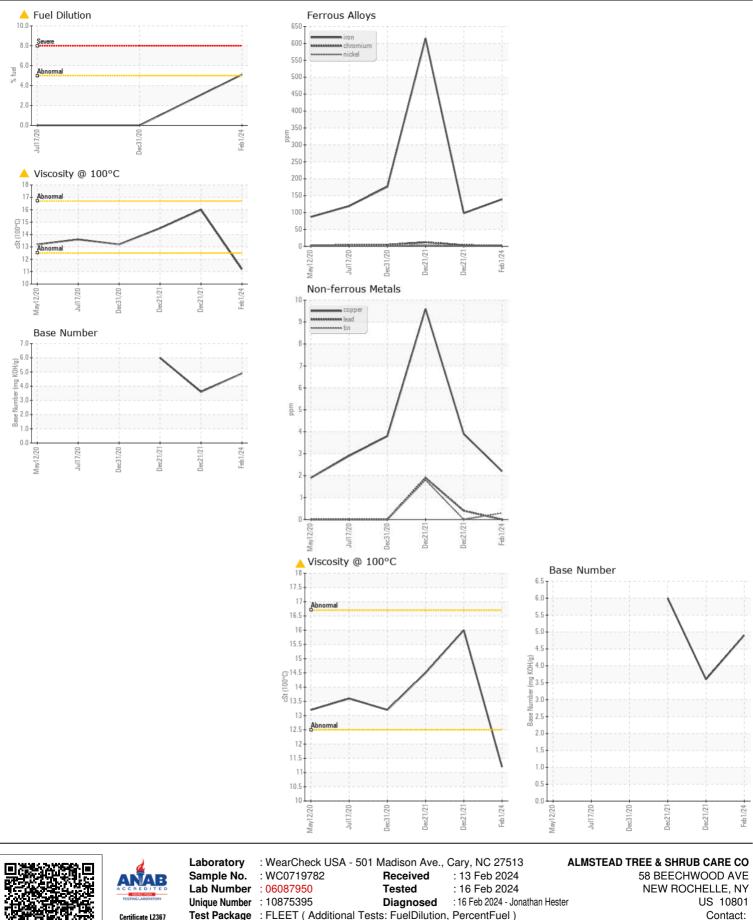
## CONTAMINATION

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

### FLUID CONDITION

Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0719782	WC0537519	WC0537518
Sample Date		Client Info		01 Feb 2024	21 Dec 2021	21 Dec 2021
Machine Age	mls	Client Info		31647	24950	25005
Oil Age	mls	Client Info		0	0	0
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	SEVERE	ATTENTION
Iron	ppm	ASTM D5185m	>100	139	615	98
Chromium	ppm	ASTM D5185m	>20	2	12	3
Nickel	ppm	ASTM D5185m	>4	1	4	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>20	10	22	▲ 34
Lead	ppm	ASTM D5185m	>40	0	2	<1
Copper	ppm	ASTM D5185m	>330	2	10	4
Tin	ppm	ASTM D5185m	>15	<1	2	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	11	32	7
Potassium	ppm	ASTM D5185m	>20	2	4	× 52
Fuel	%	ASTM D310311	>5	∠ ▲ 5.1	<1.0	<1.0
Water	70	WC Method		NEG	NEG	NEG
Glycol		WC Method	20.L	NEG	NEG	NEG
Soot %	%	*ASTM D7844	>3	0.6	2	2.7
Nitration	Abs/cm	*ASTM D7624	>20	14.0	31.4	14.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	42.6	76.8	33.3
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		6	13	4
Boron	ppm	ASTM D5185m		2	10	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		86	46	3
Manganese	ppm	ASTM D5185m		1	4	1
Magnesium	ppm	ASTM D5185m		18	30	13
Calcium	ppm	ASTM D5185m		3323	3872	2397
Phosphorus	ppm	ASTM D5185m		1150	1282	855
Zinc	ppm	ASTM D5185m		1345	1532	1076
Sulfur	ppm	ASTM D5185m	05	11750	6105	3246
Oxidation	Abs/.1mm	*ASTM D7414	>25	34.5	89.6	22.3
Base Number (BN)	mg KOH/g	ASTM D2896		4.9	▲ 3.6	6
Visc @ 100°C	cSt	ASTM D445		11.2	16.0	14.5



 Certificate 12367
 Test Package
 : FLEET (Additional Tests: FuelDilution, PercentFuel)

 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: ALMNRONY [WUSCAR] 06087950 (Generated: 02/22/2024 21:46:20) Rev: 1

Contact/Location: ? ? - ALMNRONY

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