

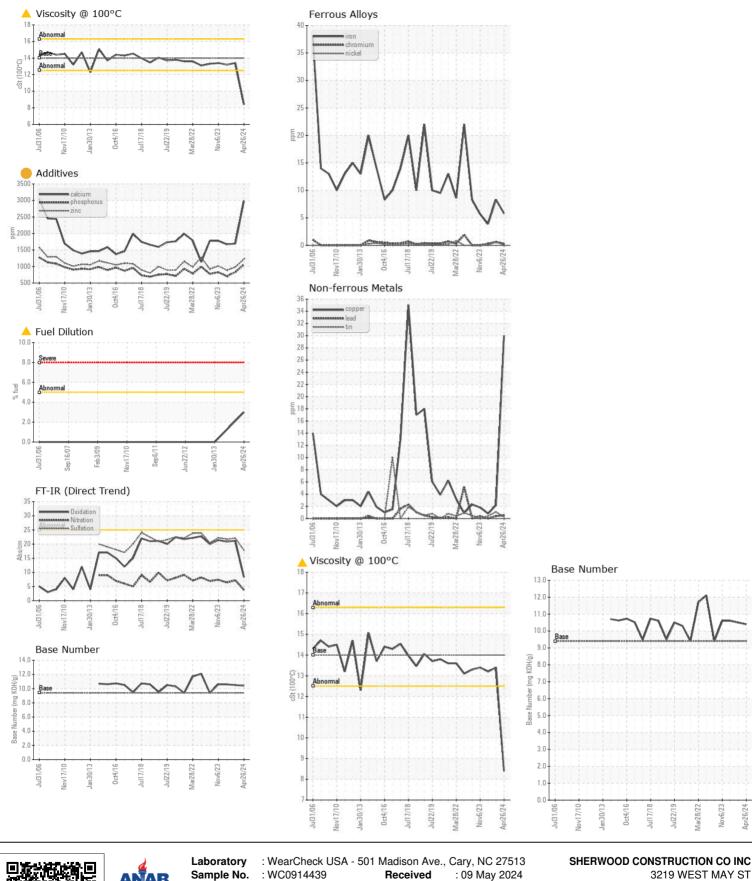
WEAR CONTAMINATION FLUID CONDITION

NORMAL MARGINAL ABNORMAL

OKLAHOMA/102/EG - OTHER SERVICE 87.40 [OKLAHOMA^102^EG - OTHER SERVICE]

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0914439	WC0908852	-
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		26 Apr 2024	10 Apr 2024	05 Mar 2024
	Machine Age	hrs	Client Info		6426	6405	6245
	Oil Age	hrs	Client Info		226	160	110
	Filter Age	hrs	Client Info		226	160	110
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	6	8	4
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		2	3	2
	Lead	ppm	ASTM D5185m	>40	<1	<1	0
	Copper	ppm	ASTM D5185m	>330	30	2	<1
	Tin	ppm	ASTM D5185m	>15	<1	1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	12	7	8
	Potassium	ppm	ASTM D5185m		2	2	1
Light fuel dilution occurring.	Fuel	%	ASTM D3524		▲ 3.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	3.8	7.2	6.4
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.8	22.1	21.7
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m		<1	<1	<1
	Boron	ppm	ASTM D5185m	0	75	61	65
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0	0	0	0
	Molybdenum	ppm	ASTM D5185m	0	2	45	44
	Manganese	ppm	ASTM D5185m		0	<1	0
	Magnesium	ppm	ASTM D5185m	0	9 39	563	495
	Calcium	ppm	ASTM D5185m		2988	1695	1669
	Phosphorus	ppm	ASTM D5185m		1062	834	705
	Zinc	ppm	ASTM D5185m		1225	982	888
	Sulfur	ppm	ASTM D5185m		5909	2893	2445
	Oxidation	Abs/.1mm	*ASTM D7414		8.3	21.2	20.8
	Base Number (BN)	mg KOH/g	ASTM D2896		10.4	10.5	10.6
	Visc @ 100°C	cSt	ASTM D445	14	8.4	13.4	13.2







Certificate L2367

Sample No.

: WC0914439 Lab Number : 06174924

Unique Number : 11020977

Tested Diagnosed

Test Package: CONST (Additional Tests: FuelDilution, 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.

: 15 May 2024

: 15 May 2024 - Wes Davis

3219 WEST MAY ST WICHITA, KS

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Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)