

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

604470 WESTERN STAR 4900SF

Diesel Engine

SHELL 15W40 (--- GAL)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the

Fluid Condition

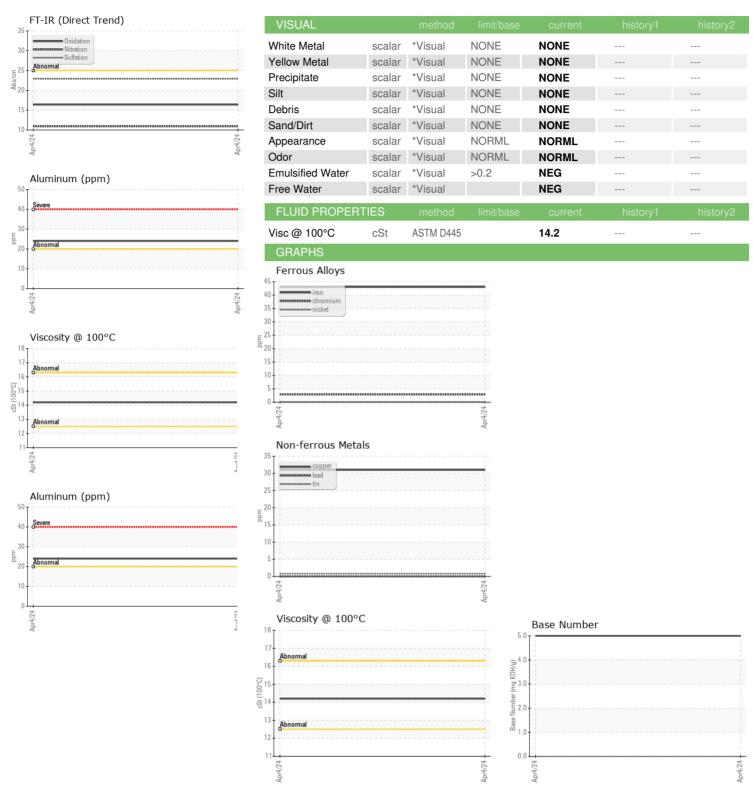
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

				Apr2024		
SAMPLE INFORM	MATION	method				history2
Sample Number		Client Info		WC0733946		
Sample Date		Client Info		04 Apr 2024		
Machine Age	mls	Client Info		90659		
Oil Age	mls	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
Glycol		WC Method	7 U.L	NEG		
			11 11 11			
WEAR METALS		method	limit/base		history1	history2
Iron	ppm	ASTM D5185m	>100	43		
Chromium	ppm	ASTM D5185m	>20	3		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	0	<1		
Silver	ppm	ASTM D5185m	>3	<1		
Aluminum	ppm	ASTM D5185m	>20	24		
Lead	ppm	ASTM D5185m	>40	0		
Copper Tin	ppm	ASTM D5185m ASTM D5185m	>330	31		
Vanadium	ppm	ASTM D5185m	>10	<1 0		
Cadmium	ppm	ASTM D5185m		0		
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		16		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		64		
Manganese	ppm	ASTM D5185m		1		
Magnesium	ppm	ASTM D5185m		66		
Calcium	ppm	ASTM D5185m		2429		
Phosphorus	ppm	ASTM D5185m		1067		
Zinc	ppm	ASTM D5185m		1287		
Sulfur	ppm	ASTM D5185m		4001		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7		
Sodium	ppm	ASTM D5185m	>150	1		
Potassium	ppm	ASTM D5185m	>20	44		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.6		
Nitration	Abs/cm	*ASTM D7624	>20	10.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.9		
FLUID DEGRADA	TION _	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4		
Base Number (BN)	mg KOH/g	ASTM D2896		5.0		
\ /	0					

Contact/Location: DAN CORBETT - TRIRICNY



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

: WC0733946 Lab Number : 06149443 Unique Number : 10979521 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Tested Diagnosed

: 15 Apr 2024 : 16 Apr 2024

: 16 Apr 2024 - Wes Davis

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.

US 12149 Contact: DAN CORBETT

dcorbett@tchpi.com T:

TRI-CITY HIGHWAY

145 PODPADIC ROAD

RICHMONDVILLE, NY

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

Contact/Location: DAN CORBETT - TRIRICNY