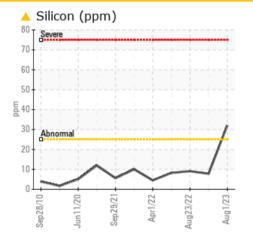


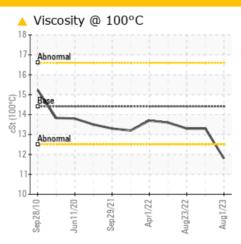
PROBLEM SUMMARY

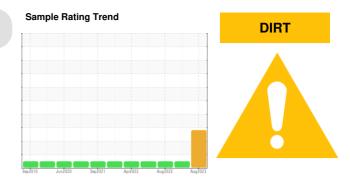
CR-4401

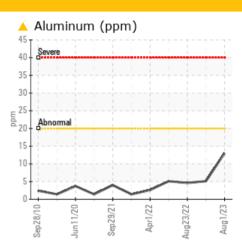
Component Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (7 GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	NORMAL	NORMAL		
Aluminum	ppm	ASTM D5185m	>20	1 3	5	5		
Silicon	ppm	ASTM D5185m	>25	A 32	8	9		
Visc @ 100°C	cSt	ASTM D445	14.4	11.8	13.3	13.3		

Customer Id: BUCWILTX Sample No.: WC0833405 Lab Number: 05925244 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data: Sean Felton +1 919-379-4092 sfelton@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
Change Fluid			?	Oil and filter change at the time of sampling has been noted.		
Change Filter			?	Oil and filter change at the time of sampling has been noted.		
Check Dirt Access			?	We advise that you check the air filter, air induction system, and any areas where dirt may enter the component.		

HISTORICAL DIAGNOSIS



20 Oct 2022 Diag: Wes Davis

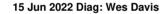
Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



view report

23 Aug 2022 Diag: Wes Davis

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.







Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend

Diesel Engine Fluid DIESEL ENGINE OIL SAE 15W40 (7 GAL)

DIAGNOSIS

Machine Id CR-4401 Component

Recommendation

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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

Fuel content negligible. Elemental levels of silicon (Si) and aluminum (AI) indicate alumina-silicate (coarse dirt) ingress.

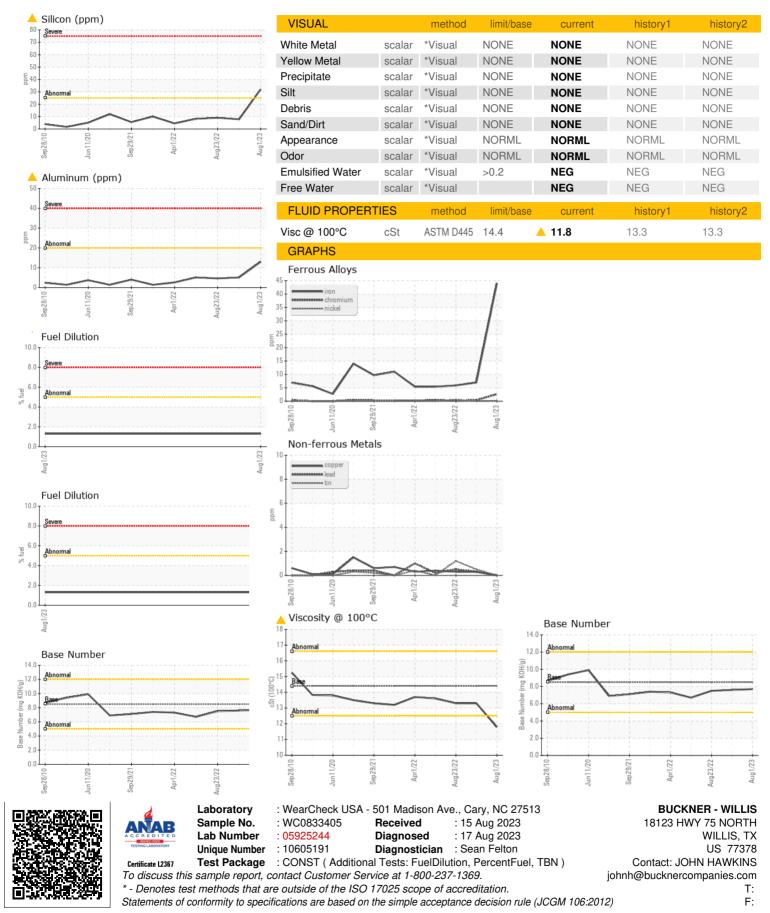
Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0833405	WC0720805	WC0720707
Sample Date		Client Info		01 Aug 2023	20 Oct 2022	23 Aug 2022
Machine Age	hrs	Client Info		1335	11973	11383
Oil Age	hrs	Client Info		0	500	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	١	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	44	7	6
Chromium	ppm	ASTM D5185m	>20	3	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>3	0	0	<1
Aluminum	ppm	ASTM D5185m	>20	<u> </u>	5	5
Lead	ppm	ASTM D5185m	>40	0	<1	<1
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm		>15	0	<1	1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	53	47	57
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	55	75	76
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	687	142	102
Calcium	ppm	ASTM D5185m	3000	1770	2031	1882
Phosphorus	ppm	ASTM D5185m	1150	931	985	951
Zinc	ppm	ASTM D5185m	1350	1206	1183	1128
Sulfur	ppm	ASTM D5185m	4250	3976	4235	3390
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	▲ 32	8	9
Sodium	ppm	ASTM D5185m	>158	4	8	4
Potassium	ppm	ASTM D5185m	>20	4	7	1
Fuel	%	ASTM D3524	>5	1.3	<1.0	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	8.1	10.2	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	19.9	19.2
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
FLUID DEGRADA	Abs/.1mm	method *ASTM D7414		current 17.0	history1 15.6	14.8



OIL ANALYSIS REPORT



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