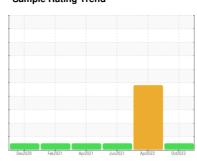


OIL ANALYSIS REPORT

Sample Rating Trend





Machine Id **5175** Component **Diesel Engine**

DIESEL ENGINE OIL SAE 15W40 (--- QTS)

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

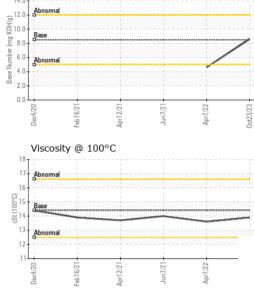
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		Dec2020	Feb2021 Apr2021	Jun2021 Apr2022	0ct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0650919	WC0682065	WC0576798
Sample Date		Client Info		23 Oct 2023	07 Apr 2022	07 Jun 2021
Machine Age	hrs	Client Info		7114	3892	2204
Oil Age	hrs	Client Info		100	250	250
Oil Changed		Client Info		Not Changd	Changed	Changed
Sample Status				NORMAL	SEVERE	NORMAL
CONTAMINATION	٧	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	4	33	16
Chromium	ppm	ASTM D5185m	>20	0	1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	5	3
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	9	3
Tin	ppm	ASTM D5185m	>15	0	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	22	4	17
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	57	62	56
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m	450	834	1001	853
Calcium	ppm	ASTM D5185m	3000	1119	1197	1068
Phosphorus	ppm	ASTM D5185m	1150	983	1067	943
Zinc	ppm	ASTM D5185m	1350	1205	1413	1173
Sulfur	ppm	ASTM D5185m	4250	3101	2254	2486
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	14	• 84	24
Sodium	ppm	ASTM D5185m	>158	1	2	1
Potassium	ppm	ASTM D5185m	>20	0	1	0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	5.1	11.9	7.9
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.2	25.9	19.6
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.6	23.8	15.3
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.6	4.6	



Base Number

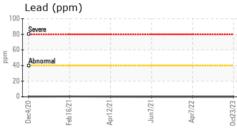
OIL ANALYSIS REPORT

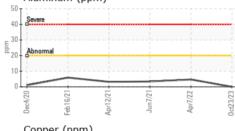


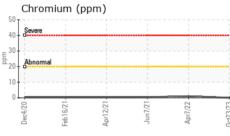
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
Free Water	scalar	*Visual		NEG	NEG	NEG
ELUID DDODEDT		and the second	Para Station and		for the control	h'atan O

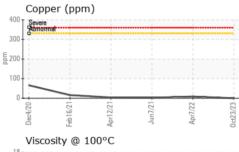
1 LOID I NOI LITTILO		memou			HISTOLYT	HISTOLYZ	
Visc @ 100°C	cSt	ASTM D445	14.4	13.9	13.6	14.0	

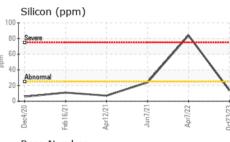
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6/2	2/2	7/2	7/23	0ct23/73
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		Feb 16/21		

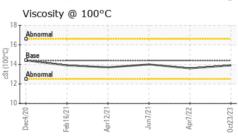


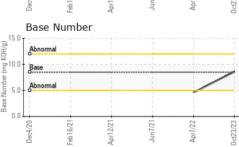














Laboratory Sample No. Lab Number **Unique Number**

: 10727048

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0650919 : 05998688

Received Diagnosed

: 06 Nov 2023 : 06 Nov 2023

Diagnostician : Wes Davis

Test Package : MOB 1 (Additional Tests: 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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

INTERSTATE WASTE-CHESTER 89 BLACK MEADOW RD

CHESTER, NY US 10918

Contact: ROB CLARKE rclarke@interstatewaste.com

T: F: (845)572-3301

Report Id: INTCHE [WUSCAR] 05998688 (Generated: 11/06/2023 18:43:04) Rev: 1

Contact/Location: ROB CLARKE - INTCHE