

OIL ANALYSIS REPORT

[**725742**] LCT-3 Component

Diesel Engine

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

Sample Rating Trend



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.

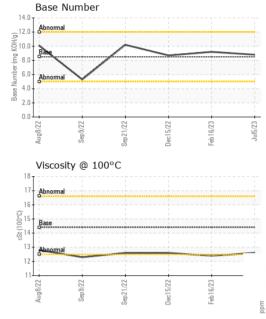
Fluid Condition

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

		Aug2022	Sepzozz Sepzozz	Dec2022 Feb2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0793394	WC0744078	WC0744082
Sample Date		Client Info		05 Jul 2023	16 Feb 2023	15 Dec 2022
Machine Age	hrs	Client Info		2294	2261	2240
Oil Age	hrs	Client Info		0	128	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		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	5	5	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		5	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	<1
Lead	ppm	ASTM D5185m	>40	0	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	144	100	108
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	1	<1	<1
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	450	737	744	653
Calcium	ppm	ASTM D5185m	3000	1461	1369	1299
Phosphorus	ppm	ASTM D5185m	1150	1096	1084	1036
Zinc	ppm	ASTM D5185m	1350	1206	1201	1142
Sulfur	ppm	ASTM D5185m	4250	4584	4743	3597
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm		>25	3	4	3
Sodium	ppm	ASTM D5185m	>158	4	4	0
Potassium	ppm	ASTM D5185m	>20	0	2	4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.1
Nitration	Abs/cm	*ASTM D7624		6.8	6.9	6.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	18.4	18.3
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.1	11.9	12.1
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	8.8	9.2	8.7

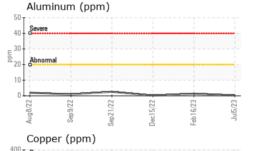


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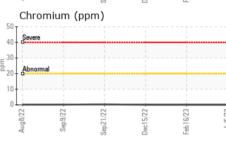
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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
ELLIIN DRODERT	mothod	limit/basa	current	history1	hictory?	

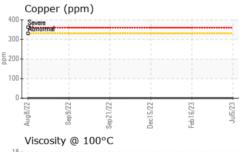
	Visc @ 100°0	0	cSt	ASTM D445	14.4		12.6		12.4	12	2.6
	GRAPHS										
25	Iron (ppm)		Lead (ppm)								
20	Severe			i		80	Severe				
20						00					

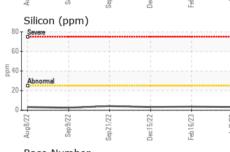


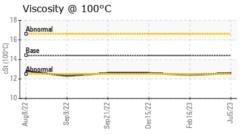
Dec15/22 -

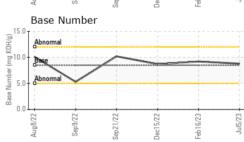
Feb16/23













Laboratory Sample No.

Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0793394 : 05902062 : 10563418

Received Diagnosed

: 19 Jul 2023 : 20 Jul 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.

AES USA - EVERETT

3003 W CASINO RD BLDG 40-26 DR S2 EVERETT, WA

Contact/Location: TIM FELLER - AESEVE

US 98204-1910 Contact: TIM FELLER

tim.feller@aes-gse.com T: (425)266-4649

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

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