

Machine Id **3840044** Component **Diesel Engine** Fluid **DIESEL ENGINE OIL SAE 15W40 (--- GAL)**

RECOMMENDATION	Test	UOM	M
	Sample Number		С
Resample at the next service interval to monitor. Please specify the	Sample Date		С
component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.	Machine Age	hrs	С
	Oil Age	hrs	С
	Filter Age	hrs	С
	Oil Changed		С
	Filter Changed		С
	Sample Status		
WEAR	Iron	ppm	AS
All component wear rates are normal.	Chromium	ppm	AS
	Nickel	ppm	AS
	Titanium	ppm	AS
	Silver	maa	AS

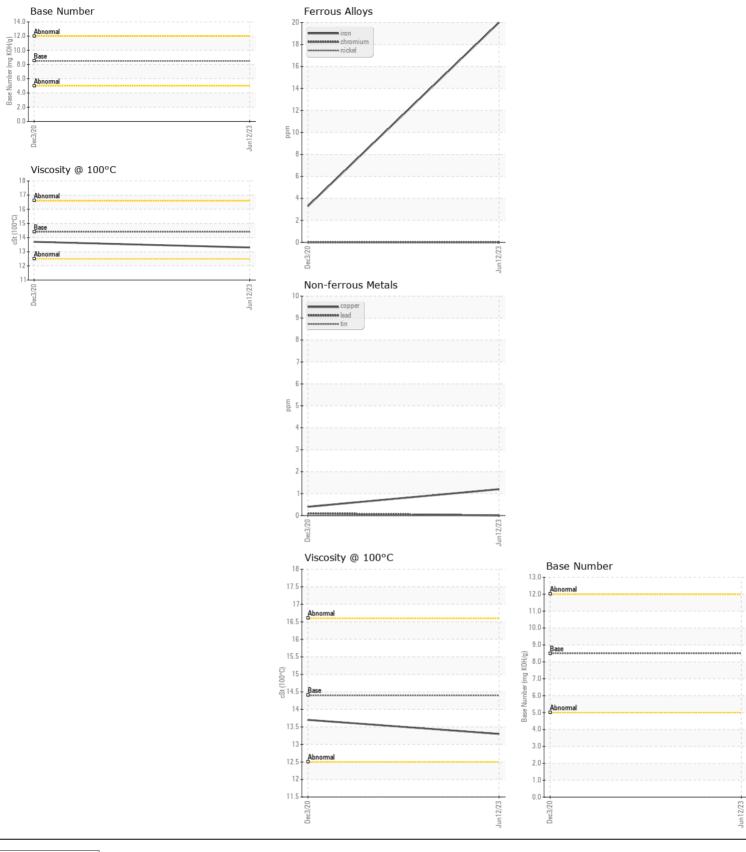
CONTAMINATION

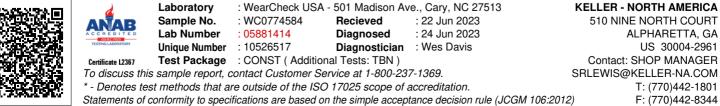
There is no indication of any contamination in the oil.

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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0774584	WC0531563	
Sample Date		Client Info		12 Jun 2023	03 Dec 2020	
Machine Age	hrs	Client Info		6603	4031	
Oil Age	hrs	Client Info		250	183	
Filter Age	hrs	Client Info		250	183	
Oil Changed		Client Info		Changed	Changed	
Filter Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	NORMAL	
Iron			. 100	00	0	
	ppm	ASTM D5185m	>100	20 0	3 0	
Chromium Nickel	ppm	ASTM D5185m ASTM D5185m	>20 >4	0	0	
Titanium	ppm	ASTM D5185m	>4	0	<1	
Silver	ppm	ASTM D5185m	>3	0	<1	
Aluminum	ppm ppm	ASTM D5185m	>20	0 <1	<1	
Lead		ASTM D5185m	>20	<1 0	<1	
Copper	ppm ppm	ASTM D5185m	>40	1	<1	
Tin		ASTM D5185m	>15	0	0	
Vanadium	ppm ppm	ASTM D5185m	210	0	<1	
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
	Scalai	visuai			NONL	
Silicon	ppm	ASTM D5185m	>25	6	4	
Potassium	ppm	ASTM D5185m	>20	0	3	
Fuel		WC Method	>5	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
Soot %	%	*ASTM D7844	>3	0.5	0.8	
Nitration	Abs/cm	*ASTM D7624	>20	7.9	6.2	
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.2	23.7	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
Cadium			150	4	0	
Sodium	ppm	ASTM D5185m ASTM D5185m	>158	1	2	
Boron	ppm	ASTM D5185m ASTM D5185m		258	349	
Barium	ppm		10	0	0	
Molybdenum Manganese	ppm	ASTM D5185m ASTM D5185m	100	68 -1	84 <1	
Magnesium	ppm	ASTM D5185m	450	<1 457	446	
Calcium	ppm	ASTM D5185m	3000	457 1514	1918	
Phosphorus	ppm ppm	ASTM D5185m	1150	839	913	
Zinc	ppm	ASTM D5185m	1350	1004	940	
Sulfur	ppm	ASTM D5185m	4250	3278	2710	
Oxidation	Abs/.1mm	*ASTM D3185111	>25	15.9	16.2	
Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896	8.5	7.7		
Visc @ 100°C	cSt	ASTM D2090 ASTM D445	14.4	13.3	13.7	
	001	A0 I W D440	14.4	13.3	10.7	





Contact/Location: SHOP MANAGER - HAYALP

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