

OIL ANALYSIS REPORT

Sample Rating Trend





Area [20253] Machine Id 10-398 Component Diesel Engine Fluid

CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

DIAGNOSIS
Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

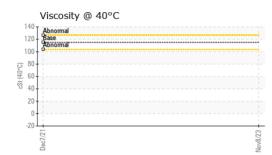
Fluid Condition

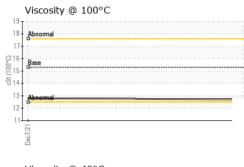
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

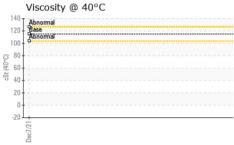
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0836110	WC0601364	
Sample Date		Client Info		08 Nov 2023	07 Dec 2021	
Machine Age	hrs	Client Info		26168	2470	
Oil Age	hrs	Client Info		1468	0	
Oil Changed		Client Info		Changed	Changed	
Sample Status				NORMAL	NORMAL	
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>120	9	39	
Chromium	ppm	ASTM D5185m	>20	<1	1	
Nickel	ppm	ASTM D5185m	>5	0	<1	
Titanium	ppm	ASTM D5185m	>2	0	<1	
Silver	ppm	ASTM D5185m	>2	0	<1	
Aluminum	ppm	ASTM D5185m	>20	1	1	
Lead	ppm	ASTM D5185m	>40	4	7	
Copper	ppm	ASTM D5185m	>330	<1	14	
Tin	ppm	ASTM D5185m	>15	<1	2	
Antimony	ppm	ASTM D5185m			0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	85	69	43	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		1		
Manganese	ppm	ASTM D5185m	050	<1	<1	
Magnesium	ppm	ASTM D5185m	350	708	621	
Calcium	ppm	ASTM D5185m	1800	1251	1281	
Phosphorus Zinc	ppm	ASTM D5185m ASTM D5185m	1000	1040	972	
Sulfur	ppm	ASTM D5185m	1100 3500	1184 3552	1059 2738	
	ppm			3352		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	5	
Sodium	ppm	ASTM D5185m		0	5	
Potassium	ppm	ASTM D5185m	>20	6	5	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>4	0.4	2.6	
Nitration	Abs/cm	*ASTM D7624	>20	8.3	10.8	
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.8	27.1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.7	18.2	
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	8.4	7.9	



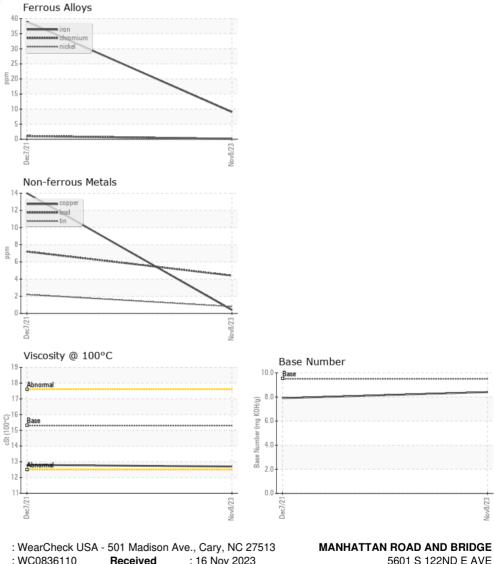
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Precipitate	scalar	*Visual	NONE	NONE	NONE	
Silt	scalar	*Visual	NONE	NONE	NONE	
Debris	scalar	*Visual	NONE	NONE	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	
Free Water	scalar	*Visual		NEG	NEG	
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.3	12.7	12.8	
GRAPHS						



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