

OIL ANALYSIS REPORT

Sample Rating Trend

GLYCOL



Area [23534] Machine Id 50-65 **Diesel Engine**

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

DIAGNOSIS	SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
A Recommendation	Sample Number		Client Info		WC0923337	WC0750321	WC0548803
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		18 Jun 2024	24 Apr 2023	04 Jun 2021
	Machine Age	hrs	Client Info		2635	2347	2020
	Oil Age	hrs	Client Info		288	0	250
Wear	Oil Changed		Client Info		Changed	Changed	Changed
All component wear rates are normal.	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Contamination Sodium and/or potassium levels remain high. Test	CONTAMINATION	N	method	limit/base	current	history1	history2
for glycol is negative.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
Fuid Condition The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Water		WC Method	>0.21	NEG	NEG	NEG
	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>51	7	6	8
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	3	0	1
	Lead	ppm	ASTM D5185m		<1	0	<1
	Copper	ppm	ASTM D5185m		<1	0	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Antimony	ppm	ASTM D5185m				0
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	85	13	98	90
	Barium	ppm	ASTM D5185m	00	0	0	0
	Molybdenum	ppm	ASTM D5185m		3	2	1
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	350	141	753	751
	Calcium	ppm	ASTM D5185m		2227	1367	1410
	Phosphorus	ppm	ASTM D5185m		1042	1122	1121
	Zinc	ppm	ASTM D5185m		1254	1285	1271
	Sulfur	ppm	ASTM D5185m		4361	4784	3452
	CONTAMINANTS			limit/base		history1	history2
	Silicon	ppm	ASTM D5185m	>22	5	5	5
	Sodium	ppm	ASTM D5185m		20	25	21
	Potassium	ppm	ASTM D5185m		▲ 91	▲ 130	▲ 131
	Glycol	%	*ASTM D2982		NEG	NEG	NEG
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		6.3	7.2	8.2
	Sulfation	Abs/.1mm	*ASTM D7415		16.5	19.5	21.6
	FLUID DEGRADA	TION	method	limit/base	current	history1	history2
	FLUID DEGRADA		method *ASTM D7414		current 9.5	history1 12.5	history2 18.2

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Submitted By: JAMES STEELMON

9.3

7.8

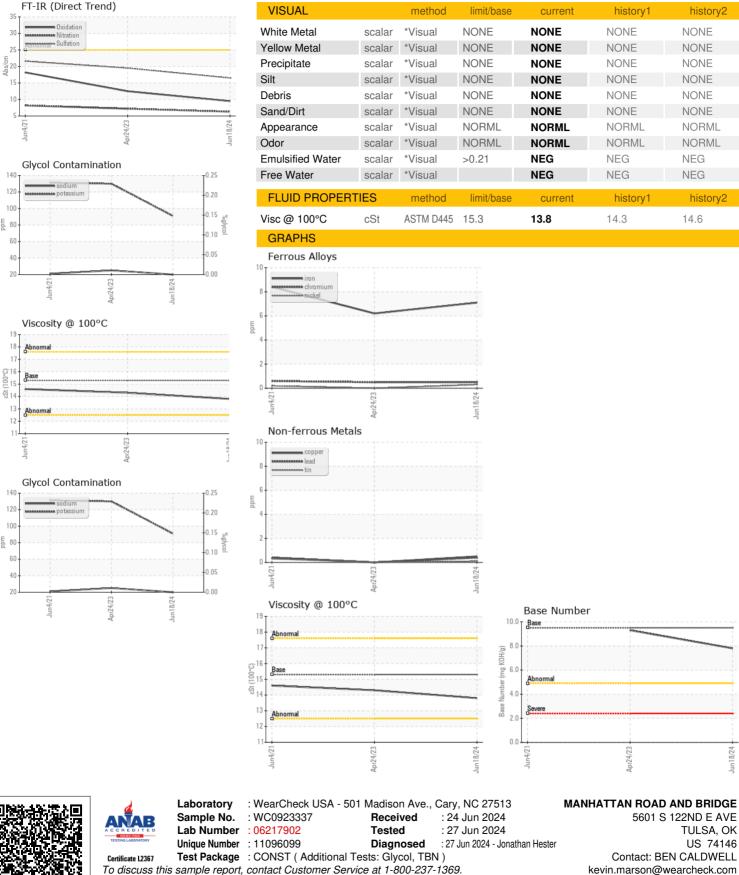
Base Number (BN) mg KOH/g ASTM D2896 9.5



mdd

mdo

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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)

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