

OIL ANALYSIS REPORT

Sample Rating Trend



Area [18158] Machine Id 40-156 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.

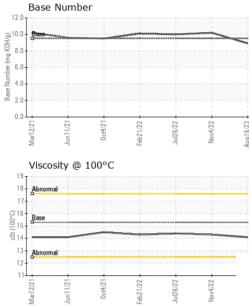
Fluid Condition

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

Sample Number Client Info WC0802431 WC0738924 WC0601675 Sample Date Client Info 16 Aug 2023 04 Nov 2022 26 Jul 2022 Machine Age hrs Client Info 5621 5246 5007 Oil Age hrs Client Info 375 5246 285 Oil Changed Client Info Changed Changed Changed Sample Status Client Info 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 NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m<>100 6 6 7 Chromium ppm ASTM D5185m<>20 <1 <1 <1
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Iron ppm ASTM D5185m >100 6 6 7
Chromium ppm ASTM D5185m >20 <1
Nickel ppm ASTM D5185m >4 0 <1
Titanium ppm ASTM D5185m 0 <1
Silver ppm ASTM D5185m >3 0 0 <1
Aluminum ppm ASTM D5185m >20 <1
Lead ppm ASTM D5185m >40 <1 <1
Copper ppm ASTM D5185m >330 0 <1
Tin ppm ASTM D5185m >15 <1
Antimony ppm ASTM D5185m
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 85 76 88 56
Barium ppm ASTM D5185m 0 <1
Molybdenum ppm ASTM D5185m 16 7 20
Manganese ppm ASTM D5185m 0 <1
Magnesium ppm ASTM D5185m 350 749 747 800
Calcium ppm ASTM D5185m 1800 1479 1373 1266
Phosphorus ppm ASTM D5185m 1000 1056 1052 1098
Zinc ppm ASTM D5185m 1100 1296 1297 1300
Sulfur ppm ASTM D5185m 3500 4474 4173 3683
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OIL ANALYSIS REPORT



			Yellow Meta Precipitate Silt Debris Sand/Dirt		scalar scalar scalar scalar scalar scalar	*Visual *Visual *Visual *Visual *Visual	NONE NONE NONE NONE		NONE NONE NONE NONE		NONE NONE NONE NONE	1 1 1 1	NONE NONE NONE NONE	
	Jule 6/22	Aug1	Appearance Odor Emulsified W Free Water		scalar scalar scalar scalar	*Visual *Visual *Visual *Visual	NORML NORML >0.2		NORM NORM NEG NEG		NORML NORML NEG NEG	1	NORML NORML NEG NEG	
			FLUID PR	OPER	TIES	method	limit/ba	ase	curre	nt	history1		history	/2
			Visc @ 100°	С	cSt	ASTM D445	15.3		14.1		14.3	1	14.4	
			GRAPHS											
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		11 11 11 12 100-0() 11 11 11	Base Abnormal					10.0 - 0.8 K0H/d) - 0.8 Mmpet (mg K0H/d) - 0.9 -	Base					-
		1	ı <u>Li i</u>	21	2	2		0.0	21	21		2	2	
			Mar12/2 Jun11/2	0ct4/21	Feb21/22	Jul26/22 Nov4/22	Aug16/23	PC/C Propy	Jun11/2	0ct4/21	Feb21/22	Jul26/22	Nov4/22	Aug16/23
Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. : WC0802431 Received : 29 Aug 2023 Lab Number : 05937790 Diagnosed : 30 Aug 2023 Unique Number : 10628402 Diagnostician : Wes Davis Test Package : CONST (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 (13 MANHATTAN ROAD AND BRIDGE 5601 S 122ND E AVE TULSA, OK US 74146 Contact: BEN CALDWELL kevin.marson@wearcheck.com T: (918)728-5749						

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