

OIL ANALYSIS REPORT

Area [23024] 80-233

Diesel Engine

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

Sample Rating Trend



Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

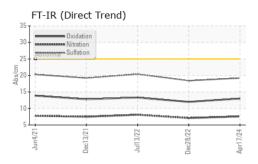
Fluid Condition

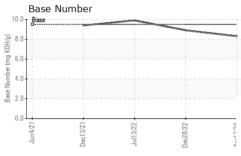
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

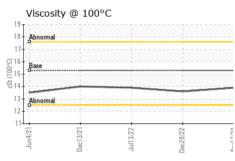
) (GAL)		Junzozi	0002021	0012022	Apr2UZ4	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		WC0923384 17 Apr 2024 3221 528 Changed NORMAL	WC0709390 28 Dec 2022 2693 226 Changed NORMAL	WC0709412 13 Jul 2022 2467 222 Changed NORMAL
CONTAMINATION		method	limit/base	current	history1	history2
Fuel Water Glycol		WC Method WC Method	>5 >0.2	<1.0 NEG NEG	<1.0 NEG NEG	<1.0 NEG NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron Chromium Nickel Titanium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>100 >20 >4	19 <1 0 <1	15 <1 <1 <1	27 1 0 <1
Silver Aluminum Lead Copper	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>3 >20 >40 >330	0 11 0	0 10 <1	0 21 0
Tin Antimony Vanadium Cadmium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>15	<1 0 0	<1 <1 0	<1 0 0
ADDITIVES		method	limit/base	current	history1	history2
Boron Barium Molybdenum Manganese	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	85	118 0 11 <1	94 <1 5 <1	99 <1 1 <1
Magnesium Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	350 1800 1000 1100	730 1476 1108 1285	675 1286 1013 1177	692 1312 1093 1256
Sulfur	ppm	ASTM D5185m		4561	4415	3854
CONTAMINANTS Silicon Sodium Potassium	ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >25 >20	5 4 <1	history1 4 3 3	history2 5 2 4
INFRA-RED		method	limit/base	current	history1	history2
Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>3 >20 >30	0.2 7.6 19.2	0.1 7.1 18.4	0.1 8.1 20.4
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896	>25 9.5	13.0 8.3	12.0 8.9	13.3 9.9

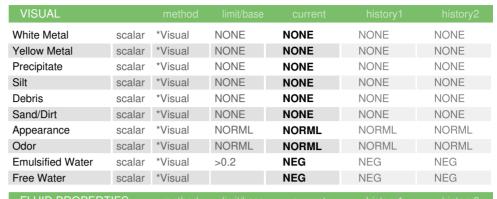


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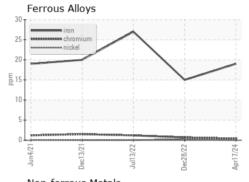


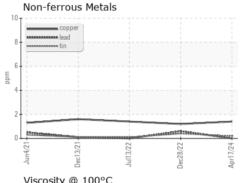


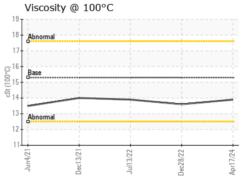


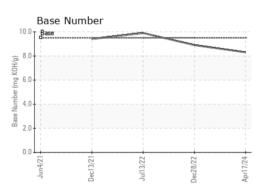
FLUID PROPER	TILO	memod			riistory i	HISTORYZ
Visc @ 100°C	cSt	ASTM D445	15.3	13.9	13.6	13.9

GRAPHS













Certificate 12367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No.

: WC0923384 Lab Number : 06183611 Unique Number : 11034937

Received **Tested** Diagnosed

: 17 May 2024 : 21 May 2024 : 21 May 2024 - Wes Davis

MANHATTAN ROAD AND BRIDGE 5601 S 122ND E AVE TULSA, OK

US 74146 Contact: BEN CALDWELL kevin.marson@wearcheck.com

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 (JCGM 106:2012)

T: (918)728-5749