

OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id MCI 2059

Component **Diesel Engine**

PURUS SYNTHETIC BLEND 10W30 (--- 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.

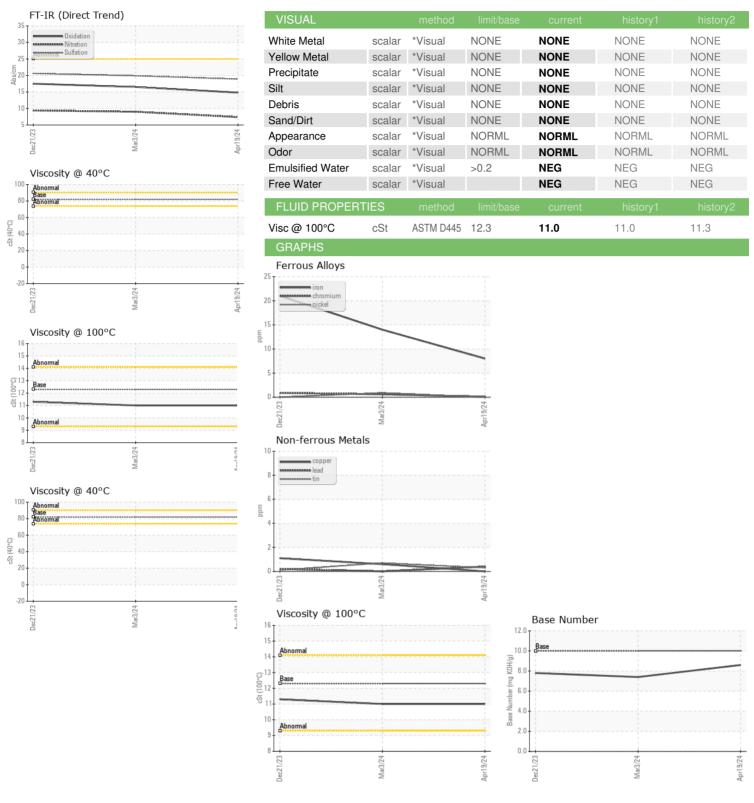
Fluid Condition

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

L)		Dec	2023	Mar2024 Apr20	24	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0859097	WC0859065	WC0859046
Sample Date		Client Info		19 Apr 2024	03 Mar 2024	21 Dec 2023
Machine Age	mls	Client Info		110000	92643	65454
Oil Age	mls	Client Info		19000	27000	30000
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	8	14	21
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	0
Titanium	ppm	ASTM D5185m	-	0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m		2	3	3
Lead	ppm	ASTM D5185m	>40	<1	0	<1
Copper	ppm	ASTM D5185m		0	<1	1
Tin	ppm	ASTM D5185m	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		14	23	26
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		61	65	77
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		975	918	987
Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		1211 1095	1103 1017	1121 1112
Zinc	ppm	ASTM D5185m		1352	1231	1249
Sulfur	ppm	ASTM D5185m		4026	3764	3327
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	6	6	8
Sodium	ppm	ASTM D5185m		<1	3	1
Potassium	ppm	ASTM D5185m	>20	2	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.3	0.3
Nitration	Abs/cm	*ASTM D7624	>20	7.4	9.0	9.4
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	19.9	20.6
FLUID DEGRADATION method limit/base current history1 history2						
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.8	16.5	17.5
Base Number (BN)	mg KOH/g	ASTM D2896	10	8.6	7.4	7.8



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Certificate 12367

Laboratory Sample No.

Lab Number : 06208304 Unique Number : 11075765

: WC0859097

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Diagnosed

: 12 Jun 2024 : 14 Jun 2024 Test Package : FLEET (Additional Tests: KV40)

: 14 Jun 2024 - Don Baldridge

BILLINGS, MT US 59101 Contact: BILLINGS SHOP billingsshop@jeffersonlines.com

JEFFERSON LINES

1830 4TH AVE N

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)

Contact/Location: BILLINGS SHOP? - JEFBIL

T:

F: