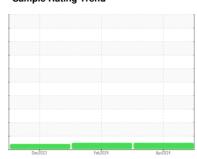


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
MCI 2057

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.

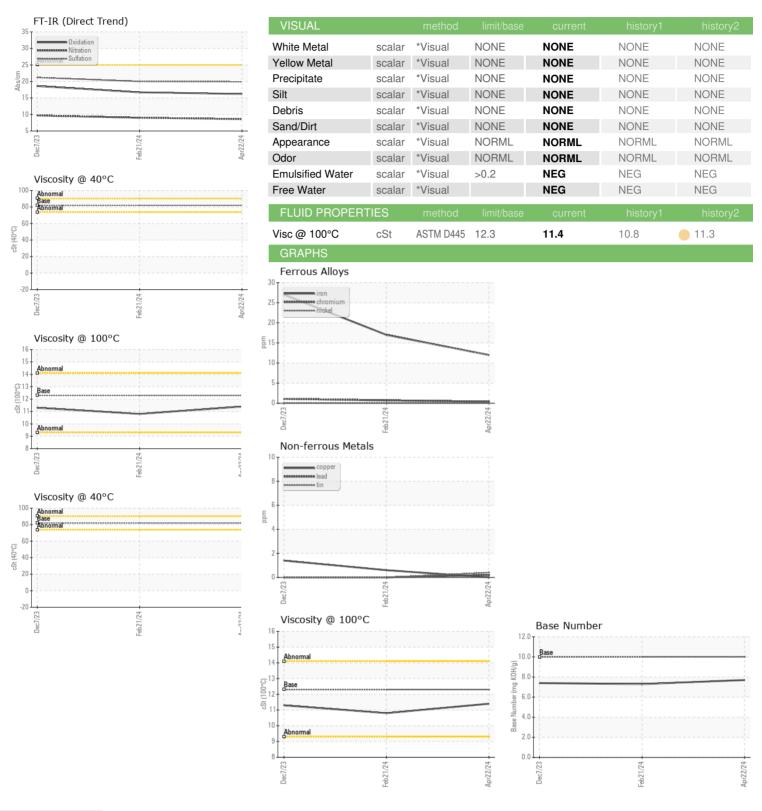
Fluid Condition

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

Dec2023 Feb2024 Apr2024						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0859106	WC0859019	WC0859047
Sample Date		Client Info		22 Apr 2024	21 Feb 2024	07 Dec 2023
Machine Age	mls	Client Info		108438	82606	48000
Oil Age	mls	Client Info		25000	60000	0
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATIC	N	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	0.3
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	12	17	27
Chromium	ppm	ASTM D5185m	>20	<1	<1	1
Nickel	ppm	ASTM D5185m	>4	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	3	4
Lead	ppm	ASTM D5185m	>40	<1	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	1
Tin	ppm	ASTM D5185m	>15	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		12	21	25
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		61	68	73
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		974	918	945
Calcium	ppm	ASTM D5185m		1236	1129	1134
Phosphorus	ppm	ASTM D5185m		1092	1102	1098
Zinc	ppm	ASTM D5185m		1367	1219	1213
Sulfur	ppm	ASTM D5185m		3952	3388	3358
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	7	8	8
Sodium	ppm	ASTM D5185m		<1	1	2
Potassium	ppm	ASTM D5185m	>20	2	6	11
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.2	0.2	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.6	9.0	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.9	20.0	21.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.2	16.7	18.6
Base Number (BN)	mg KOH/g	ASTM D2896	10	7.7	7.3	7.4



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06208324 Unique Number : 11075785

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0859106 Received **Tested**

: 12 Jun 2024 : 14 Jun 2024 Diagnosed

: 14 Jun 2024 - Don Baldridge Test Package : FLEET (Additional Tests: KV40)

US 59101 Contact: BILLINGS SHOP billingsshop@jeffersonlines.com T:

JEFFERSON LINES

1830 4TH AVE N

BILLINGS, MT

 st - 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)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Report Id: JEFBIL [WUSCAR] 06208324 (Generated: 06/15/2024 12:03:57) Rev: 1

Contact/Location: BILLINGS SHOP? - JEFBIL

F: