

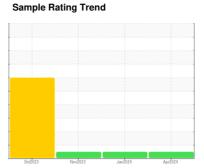
OIL ANALYSIS REPORT



Area **Bridgewater CATERPILLAR 5148**

Diesel Engine

GIBRALTAR 15W/40 SUPER S-3 LX (--- QTS)





DIAGNOSIS

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

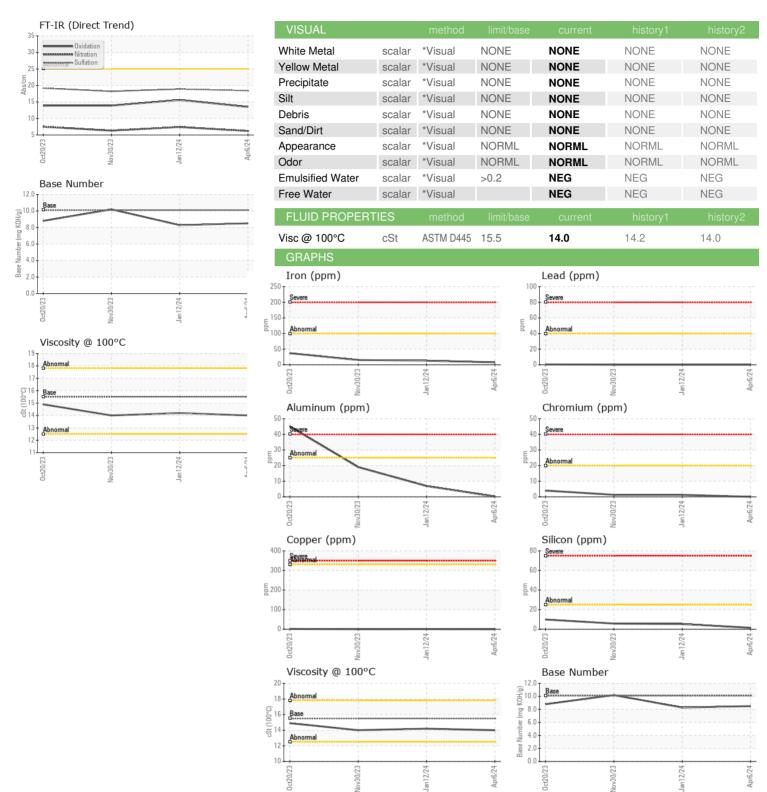
Fluid Condition

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

UPER S-3 LX (QTS) Octors Novicors Juntos April April 19						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0864831	WC0875296	WC0875308
Sample Date		Client Info		06 Apr 2024	12 Jan 2024	30 Nov 2023
Machine Age	hrs	Client Info		13413	500	12378
Oil Age	hrs	Client Info		250	0	129
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATION		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	13	15
Chromium	ppm	ASTM D5185m	>20	0	1	1
Nickel	ppm	ASTM D5185m	>2	0	<1	<1
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	7	19
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m	>330	0	<1	<1
Tin	ppm	ASTM D5185m	>15	0	0	<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		4	3	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	66	62	58	57
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m	1000	980	951	868
Calcium	ppm	ASTM D5185m	1050	1256	1156	1077
Phosphorus	ppm	ASTM D5185m	1150	1121	1028	1001
Zinc	ppm	ASTM D5185m	1270	1282	1290	1218
Sulfur	ppm	ASTM D5185m		3873	3019	3025
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	2	5	6
Sodium	ppm	ASTM D5185m		2	1	<1
Potassium	ppm	ASTM D5185m	>20	<1	2	2
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	6.2	7.4	6.3
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	18.9	18.2
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	15.6	13.9
	mg KOH/g					



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Certificate 12367

Laboratory Sample No.

Lab Number : 06146982 Unique Number : 10977060

: WC0864831

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received **Tested** Diagnosed

: 12 Apr 2024 : 15 Apr 2024 : 15 Apr 2024 - Wes Davis

15 POLHEMUS LANE BRIDGEWATER, NJ US 08807 Contact: PABLO CHARDON

Test Package : MOB 1 (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.

PChardon@interstatewaste.com T: (609)366-7431 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

INTERSTATE WASTE-BRIDGEWATER

Report Id: INTBRI [WUSCAR] 06146982 (Generated: 04/15/2024 11:39:26) Rev: 1

Contact/Location: PABLO CHARDON - INTBRI