

PROBLEM SUMMARY

DV

Sample Rating Trend

WEAR

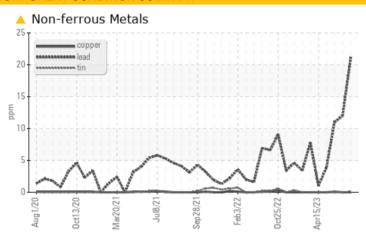


Area AAAB IRAQ Machine Id 2000-4080 Component

Genset

VALVOLINE PREMIUM BLUE (380 LTR)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	NORMAL	NORMAL			
Lead	ppm	ASTM D5185m	>10	<u>^</u> 21	12	11			

.....

Customer Id: CUMSHO Sample No.: WC0728921 Lab Number: 05924136 Test Package: FLEET

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

04 Jul 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



12 Jun 2023 Diag: Don Baldridge

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

view report

14 May 2023 Diag: Don Baldridge

NORMAL



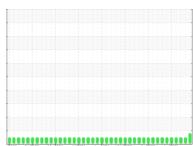
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend







AAAB IRAQ Machine Id 2000-4080

Component

Genset

VALVOLINE PREMIUM BLUE (380 LTR)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

The lead level is abnormal. All other component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

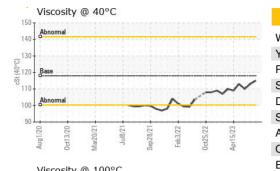
Fluid Condition

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

		g2020 Oct20	20 Mar2021 Jul2021	Sep2021 Feb2022 Oct2022	Apr2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0728921	WC0728945	WC0728866
Sample Date		Client Info		30 Jul 2023	04 Jul 2023	12 Jun 2023
Machine Age	hrs	Client Info		19633	19309	19059
Oil Age	hrs	Client Info		324	250	250
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	NORMAL	NORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>25	8	5	4
Chromium	ppm	ASTM D5185m	>5	<1	<1	0
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>10	<1	1	<1
Lead	ppm	ASTM D5185m	>10	<u>^</u> 21	12	11
Copper	ppm	ASTM D5185m	>20	0	0	<1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	<1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2.9	42	58	96
Barium	ppm	ASTM D5185m	0.1	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	23	33	48
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	18	17	17	15
Calcium	ppm					
Dhaaalaama	ppiii	ASTM D5185m	2936	3705	3748	4762
Phosphorus	ppm	ASTM D5185m ASTM D5185m	2936 998	3705 924	3748 917	4762 1170
Zinc						
	ppm	ASTM D5185m	998	924	917	1170
Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m	998 1095	924 1109	917 1111	1170 1365
Zinc Sulfur	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	998 1095 5469	924 1109 4637	917 1111 4682	1170 1365 5396
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	998 1095 5469 limit/base	924 1109 4637 current	917 1111 4682 history1	1170 1365 5396 history2
Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	998 1095 5469 limit/base	924 1109 4637 current 12	917 1111 4682 history1	1170 1365 5396 history2
Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	998 1095 5469 limit/base >25	924 1109 4637 current 12	917 1111 4682 history1 6 <1	1170 1365 5396 history2 8
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	998 1095 5469 limit/base >25 >20	924 1109 4637 current 12 1	917 1111 4682 history1 6 <1 <1	1170 1365 5396 history2 8 0
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	998 1095 5469 limit/base >25 >20 limit/base	924 1109 4637 current 12 1 0	917 1111 4682 history1 6 <1 <1	1170 1365 5396 history2 8 0 1
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844	998 1095 5469 limit/base >25 >20 limit/base	924 1109 4637 current 12 1 0 current 0.2	917 1111 4682 history1 6 <1 <1 history1 0.2	1170 1365 5396 history2 8 0 1 history2 0.1
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	998 1095 5469 limit/base >25 >20 limit/base	924 1109 4637 current 12 1 0 current 0.2 9.0	917 1111 4682 history1 6 <1 <1 history1 0.2 9.0	1170 1365 5396 history2 8 0 1 history2 0.1 8.7
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm Abs/cm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m *ASTM D7844 *ASTM D7624 *ASTM D7415	998 1095 5469 limit/base >25 >20 limit/base >20 >30 limit/base	924 1109 4637 current 12 1 0 current 0.2 9.0 20.7	917 1111 4682 history1 6 <1 <1 history1 0.2 9.0 18.8	1170 1365 5396 history2 8 0 1 history2 0.1 8.7 18.4
Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium INFRA-RED Soot % Nitration Sulfation FLUID DEGRADA	ppm ppm ppm ppm ppm ppm ppm Abs/.tmm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method *ASTM D7844 *ASTM D7624 *ASTM D7415 method	998 1095 5469 limit/base >25 >20 limit/base >20 >30 limit/base >25	924 1109 4637 current 12 1 0 current 0.2 9.0 20.7 current	917 1111 4682 history1 6 <1 <1 history1 0.2 9.0 18.8 history1	1170 1365 5396 history2 8 0 1 history2 0.1 8.7 18.4 history2



OIL ANALYSIS REPORT



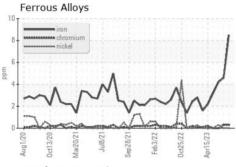
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

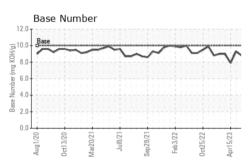
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Aug1/20	Oct13/20	Mar20/21	Jul8/21	Sep28/21	Feb3/22	Oct25/22	Apr15/23	

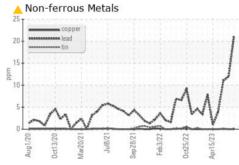
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	118	115	113	110
Visc @ 100°C	cSt	ASTM D445	15.2	14.8	14.8	14.7
Viscosity Index (VI)	Scale	ASTM D2270	134	132	135	137

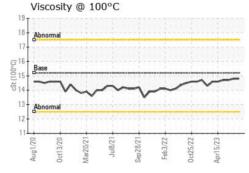
Viscosity @ 40°C 150 (200±120 100 90

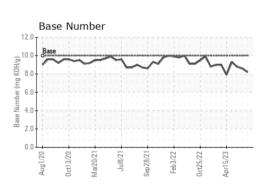
GRAPHS















Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WC0728921 : 05924136 : 10604083

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

: 14 Aug 2023 : 15 Aug 2023 Diagnostician : Don Baldridge

Test Package : FLEET (Additional Tests: KV40, VI) 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)

CUMMINS - PRIME POWER & IPP STRATEGIC ACCOUNTS

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