

OIL ANALYSIS REPORT

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Sample Rating Trend



Keye

Brent Run CAT 4 BRRM04BE

Biogas Engine

CHEVRON HDAX 6500 LFG GAS ENGINE OIL (--- GAL)

GAS ENGINE OIL		n2022 Sep20	22 002022 002022	AUG2023		
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history
Sample Number		Client Info		WC0776777	WC0776781	WC06637
Sample Date		Client Info		12 Oct 2023	04 Oct 2023	21 Sep 20
Machine Age	hrs	Client Info		103624	103457	103169
Oil Age	hrs	Client Info		770	603	315
Oil Changed		Client Info		Not Changd	Not Changd	Not Chang
Sample Status				SEVERE	NORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	histor
Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	histor
Iron	ppm	ASTM D5185m	>15	3	3	7
Chromium	ppm	ASTM D5185m	>4	<1	0	<1
Nickel	ppm	ASTM D5185m	>2	<1	0	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>6	2	<1	3
Lead	ppm	ASTM D5185m	>9	<1	<1	<1
Copper	ppm	ASTM D5185m	>6	<1	2	3
Tin	ppm		>4	4	3	4
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	histor
Boron	ppm	ASTM D5185m		1	<1	0
Barium	ppm	ASTM D5185m		3	0	1
Molybdenum	ppm	ASTM D5185m		<1	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		14	11	8
Calcium	ppm	ASTM D5185m		1877	1862	1795
Phosphorus	ppm	ASTM D5185m		298	281	257
Zinc	ppm	ASTM D5185m		376	342	329
Sulfur	ppm	ASTM D5185m		3085	2700	2518
CONTAMINANT	S	method	limit/base	current	history1	histor
Silicon	ppm	ASTM D5185m	>181	204	166	174
Sodium	ppm	ASTM D5185m		1	<1	0
Potassium	ppm	ASTM D5185m	>20	3	0	2
INFRA-RED		method	limit/base	current	history1	histor
	%	*ASTM D7844		0.1	0	0
Soot %		*ASTM D7624	>20	6.1	5.9	5.8
Soot % Nitration	Abs/cm					
	Abs/cm Abs/.1mm	*ASTM D7415	>30	21.9	20.4	19.1
Nitration	Abs/.1mm		>30 limit/base	21.9 current	20.4 history1	
Nitration Sulfation FLUID DEGRAE Oxidation	Abs/.1mm	*ASTM D7415		current 14.8		
Nitration Sulfation FLUID DEGRAE	Abs/.1mm	*ASTM D7415 method	limit/base	current	history1	histor

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. (Customer Sample Comment: 800 hour sample)

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.



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