

OIL ANALYSIS REPORT

Sample Rating Trend



DIRT X

SJNM02BE Component

Biogas Engine

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

CHEVRON HDAX 6500 E		. ,	52023 Mar20	iza Apizoza Junzoza	Jul2023 Aug2023 Sep2023	JG2023	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	e current	history1	history2
Recommendation	Sample Number		Client Info		WC0865657	WC0865652	WC0865668
Dil and filter change at the time of sampling has	Sample Date		Client Info		20 Nov 2023	16 Nov 2023	09 Nov 2023
een noted. We recommend an early resample to	Machine Age	hrs	Client Info		112099	112000	111831
monitor this condition.	Oil Age	hrs	Client Info		937	838	669
/ear	Oil Changed		Client Info		Changed	Not Changd	Not Changd
Il component wear rates are normal.	Sample Status				SEVERE	ABNORMAL	SEVERE
Contamination	CONTAMINATIO	N	method	limit/base	e current	history1	history2
luid Condition	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
The BN result indicates that there is suitable alkalinity remaining in the oil. The AN level is acceptable for this fluid.	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	WEAR METALS		method	limit/base	e current	history1	history2
	Iron	ppm	ASTM D5185m	>15	4	1	3
	Chromium	ppm	ASTM D5185m	>4	<1	0	<1
	Nickel	ppm	ASTM D5185m	>2	<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>5	0	0	<1
	Aluminum	ppm	ASTM D5185m	>6	2	2	2
	Lead	ppm	ASTM D5185m	>9	4	3	4
	Copper	ppm	ASTM D5185m	>6	2	1	2
	Tin	ppm	ASTM D5185m		4	4	3
	Vanadium	ppm	ASTM D5185m		0	0	0
	Cadmium	ppm	ASTM D5185m		<1	0	0
	ADDITIVES		method	limit/base	e current	history1	history2
	Boron	ppm	ASTM D5185m		5	3	3
	Barium	ppm	ASTM D5185m		0	0	6
	Molybdenum	ppm	ASTM D5185m		4	2	4
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m		45	29	23
	Calcium	ppm	ASTM D5185m		2064	2074	1993
	Phosphorus	ppm	ASTM D5185m		281	319	334
	Zinc	ppm	ASTM D5185m		390	405	367
	Sulfur	ppm	ASTM D5185m		2541	2505	2757
	CONTAMINANTS	6	method	limit/base	e current	history1	history2
	Silicon	ppm	ASTM D5185m	>181	227	1 97	202
	Sodium	ppm	ASTM D5185m		0	<1	0
	Potassium	ppm	ASTM D5185m	>20	2	2	2
	INFRA-RED		method	limit/base	e current	history1	history2
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	7.8	7.5
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.9	22.9	22.2
			and a star of the	limit/base	e current	history1	history2
	FLUID DEGRAD	ATION	method	iiiiii/base	ounon	TIIStOLAT	motoryz
	FLUID DEGRAD	ATION Abs/.1mm	*ASTM D7414		20.5	19.2	18.1
		Abs/.1mm		>25		· · · · ·	



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