

OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

Brent Run New Oil Brent Run New Oil

Component
New (Unused) Oil
Fluid

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

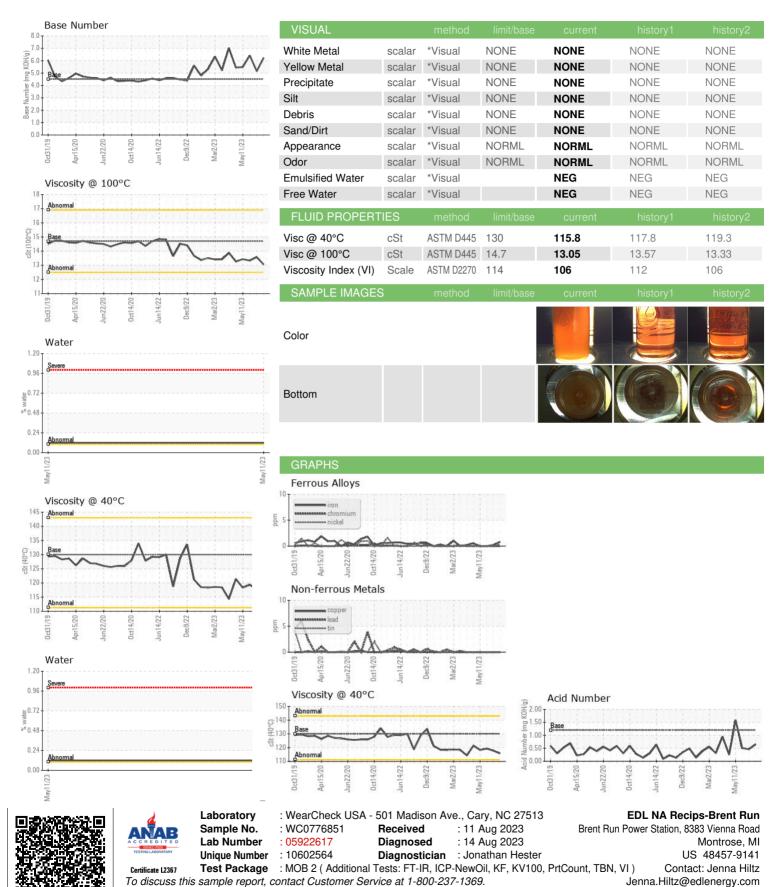
Recommendation

This is a baseline read-out on the submitted sample.

` '		:t2019 Apr20	20 Jun2020 UCI2020	Jun2022 Dec2022 Mar2023	May2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0776851	WC0776842	WC0776815
Sample Date		Client Info		08 Aug 2023	01 Aug 2023	26 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>5	<1	<1	0
Chromium	ppm	ASTM D5185m	>5	0	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	<1	4
Lead	ppm	ASTM D5185m	>5	0	0	0
Copper	ppm	ASTM D5185m	>5	0	0	0
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	3	0
	ppiii	AO IIVI DO IOSIII				
Barium	ppm	ASTM D5185m		1	0	0
				1 <1	0 <1	
Barium	ppm	ASTM D5185m		-	-	0
Barium Molybdenum	ppm ppm	ASTM D5185m ASTM D5185m		<1	<1	0
Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1	<1 <1	0 0
Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 6	<1 <1 16	0 0 0 0
Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 6 1590	<1 <1 <1 16 1835	0 0 0 0 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 6 1590 238	<1 <1 16 1835 271	0 0 0 0 1610 229
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	limit/base	<1 <1 6 1590 238 290	<1 <1 16 1835 271 320	0 0 0 0 1610 229 254 1666
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	limit/base >15	<1 <1 6 1590 238 290 1575	<1 <1 16 1835 271 320 2077 history1 6	0 0 0 0 1610 229 254 1666 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 <1 6 1590 238 290 1575 current	<1 <1 16 1835 271 320 2077 history1	0 0 0 0 1610 229 254 1666
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m		<1 <1 6 1590 238 290 1575 current	<1 <1 16 1835 271 320 2077 history1 6	0 0 0 0 1610 229 254 1666 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15	<1 <1 6 1590 238 290 1575 current 6	<1 <1 16 1835 271 320 2077 history1 6 0	0 0 0 0 1610 229 254 1666 history2
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15	<1 <1 6 1590 238 290 1575 current 6 0 1	<1 <1 <1 16 1835 271 320 2077 history1 6 0 0	0 0 0 0 1610 229 254 1666 history2 5 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	>15	<1 <1 6 1590 238 290 1575 current 6 0 1	<1 <1 16 1835 271 320 2077 history1 6 0 0	0 0 0 1610 229 254 1666 history2 5 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D6304	>15 >20	<1 <1 6 1590 238 290 1575 current 6 0 1	<1 <1 16 1835 271 320 2077 history1 6 0 0	0 0 0 1610 229 254 1666 history2 5 0
Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Water ppm Water FLUID DEGRADA	ppm	ASTM D5185m ASTM D6304 ASTM D6304 ASTM D6304 ASTM D8045	>15 >20 limit/base 1.2	<1 <1 6 1590 238 290 1575 current 6 0 1 current	<1 <1 16 1835 271 320 2077 history1 6 0 0 history1	0 0 0 1610 229 254 1666 history2 5 0 0



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* - 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)

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