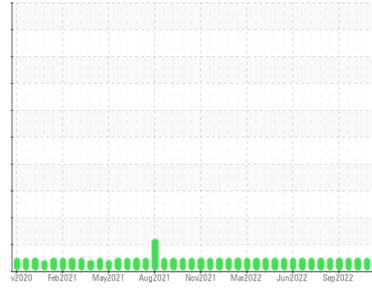




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
Hancock New Oil

Component
New (Unused) Oil

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

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. (Customer Sample Comment: New Oil delivery 1-16-23)

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0741405	WC0741446	WC0741393
Sample Date	Client Info		16 Jan 2023	15 Dec 2022	15 Nov 2022
Machine Age	Client Info		0	0	0
Oil Age	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	0	<1	<1
Chromium	ppm	ASTM D5185m >5	0	0	0
Nickel	ppm	ASTM D5185m >5	0	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m >5	0	0	<1
Aluminum	ppm	ASTM D5185m >5	0	1	<1
Lead	ppm	ASTM D5185m >5	<1	<1	<1
Copper	ppm	ASTM D5185m >5	0	0	0
Tin	ppm	ASTM D5185m >5	0	<1	<1
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	<1	<1	5
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	<1	1	2
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m	10	9	17
Calcium	ppm	ASTM D5185m	1561	1405	1476
Phosphorus	ppm	ASTM D5185m	274	267	270
Zinc	ppm	ASTM D5185m	326	333	338
Sulfur	ppm	ASTM D5185m	2717	2766	2863

CONTAMINANTS

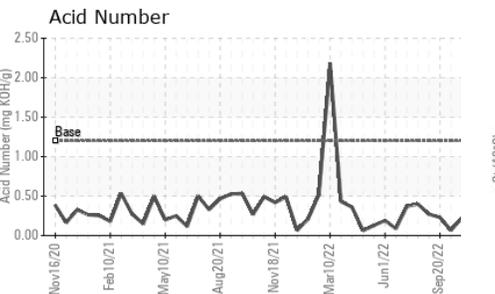
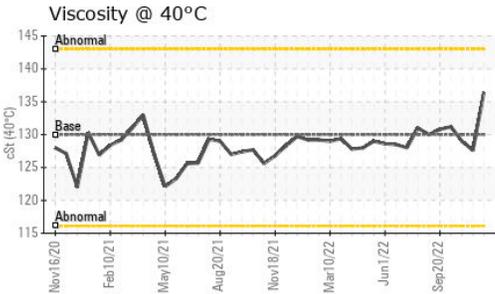
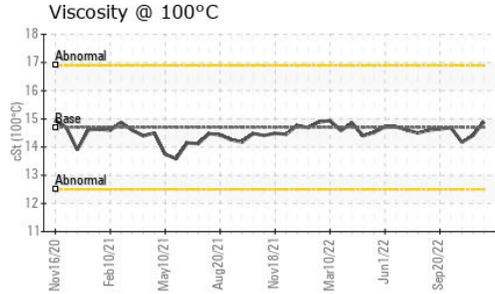
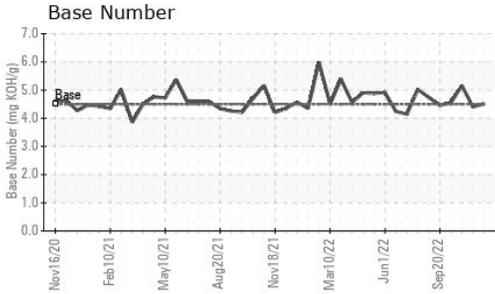
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	3	3	4
Sodium	ppm	ASTM D5185m	0	0	0
Potassium	ppm	ASTM D5185m >20	2	0	<1
Water	%	ASTM D6304	NEG	NEG	NEG

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 1.2	0.08	0.055	0.22
Base Number (BN)	mg KOH/g	ASTM D2896 4.5	4.51	4.40	5.16



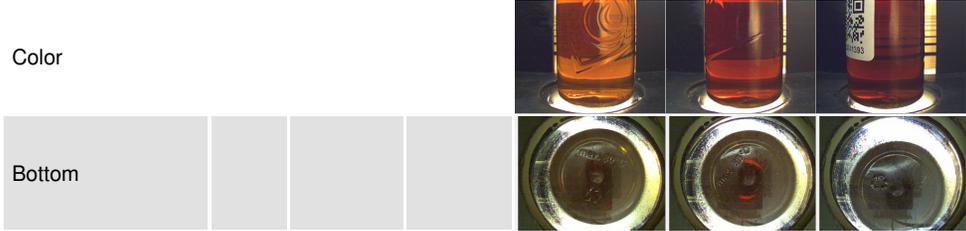
OIL ANALYSIS REPORT



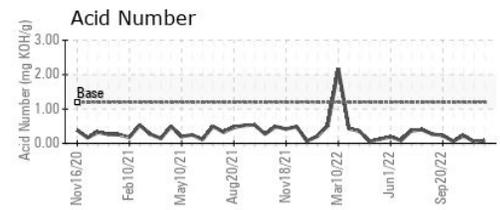
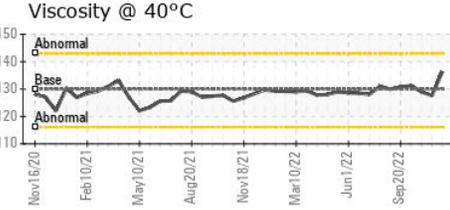
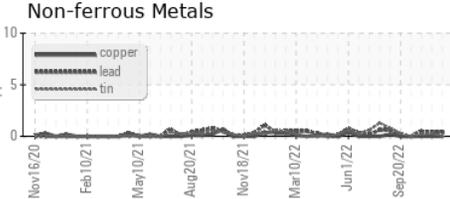
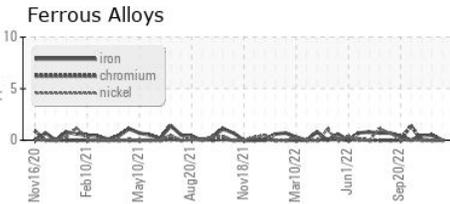
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	130	136.4	127.6
Visc @ 100°C	cSt	ASTM D445	14.7	14.89	14.41
Viscosity Index (VI)	Scale	ASTM D2270	114	110	112

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0741405 **Received** : 18 Jan 2023
Lab Number : 05743210 **Diagnosed** : 24 Jan 2023
Unique Number : 10297809 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, TBN, VI)
 To discuss this sample report, contact Customer Service at 1-800-237-1369. **Contact:** TIM CUSICK
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. **tim.cusick@edlenergy.com**
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)