

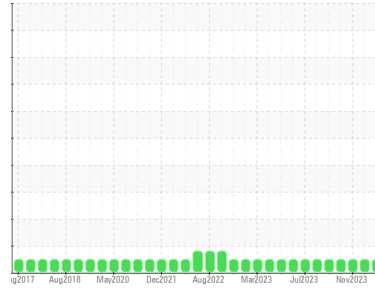


# OIL ANALYSIS REPORT



Area  
**IRIG [6463193]**  
 Machine Id  
**IRIG-GN-1104 IRIG-GN-1104 GENSET 4**  
 Component  
**Reservoir Genset**  
 Fluid  
**CHEVRON DELO 400 MULTIGRADE 15W40 (22 GAL)**

Sample Rating Trend



**NORMAL**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All 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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2	
Sample Number	Client Info	<b>HLC0003066</b>	HLC0002791	HLC0002826	
Sample Date	Client Info	<b>27 Dec 2023</b>	14 Dec 2023	16 Nov 2023	
Machine Age	hrs	Client Info	<b>16034</b>	15580	15082
Oil Age	hrs	Client Info	<b>500</b>	500	500
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## CONTAMINATION

method	limit/base	current	history1	history2
Fuel	WC Method >4.0	<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method >0.1	<b>NEG</b>	NEG	NEG
Glycol	WC Method	<b>NEG</b>	NEG	NEG

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	<b>8</b>	17	13
Chromium	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Nickel	ppm ASTM D5185m >2	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>0</b>	<1	0
Silver	ppm ASTM D5185m >5	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >12	<b>2</b>	2	<1
Lead	ppm ASTM D5185m >17	<b>0</b>	0	0
Copper	ppm ASTM D5185m >70	<b>2</b>	<1	0
Tin	ppm ASTM D5185m >15	<b>0</b>	0	<1
Vanadium	ppm ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 151	<b>65</b>	76	79
Barium	ppm ASTM D5185m 0.4	<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m 250	<b>0</b>	0	0
Manganese	ppm ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm ASTM D5185m 0	<b>745</b>	763	762
Calcium	ppm ASTM D5185m 2046	<b>1312</b>	1370	1367
Phosphorus	ppm ASTM D5185m 1043	<b>718</b>	735	744
Zinc	ppm ASTM D5185m 943	<b>825</b>	866	851
Sulfur	ppm ASTM D5185m 5012	<b>2891</b>	3194	3003

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >25	<b>2</b>	4	4
Sodium	ppm ASTM D5185m	<b>0</b>	<1	0
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	4	1

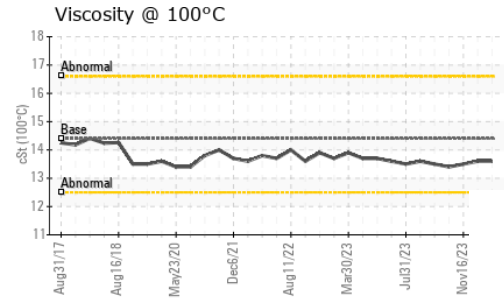
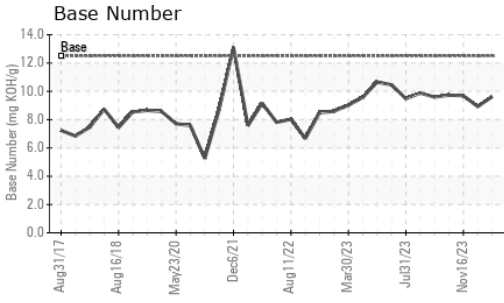
## INFRA-RED

method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	<b>0.3</b>	0.4	0.4
Nitration	Abs/cm *ASTM D7624 >20	<b>8.6</b>	8.7	8.6
Sulfation	Abs/.1mm *ASTM D7415 >30	<b>18.8</b>	19.2	19.0

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	<b>13.6</b>	13.7	13.5
Base Number (BN)	mg KOH/g ASTM D2896 12.5	<b>9.62</b>	8.92	9.69

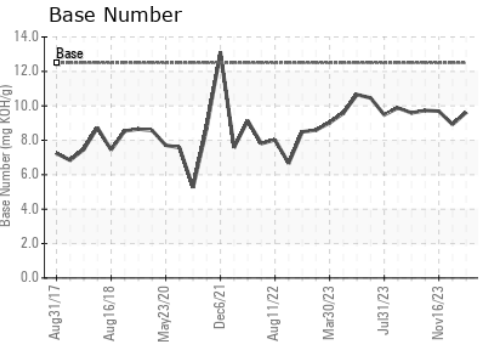
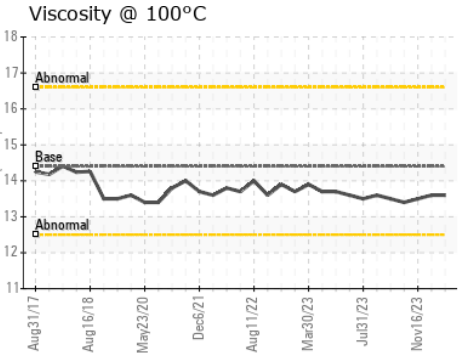
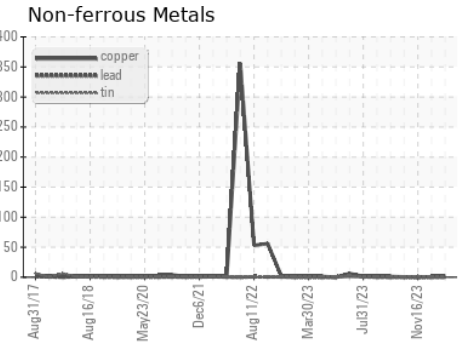
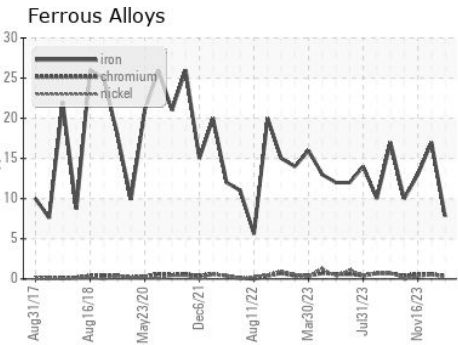
# OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	14.4	<b>13.6</b>	13.6	13.5

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : HLC0003066 **Received** : 16 Jan 2024  
**Lab Number** : **06061385** **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832767 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**HILCORP EXPLORATION ALASKA - MILNE POINT**  
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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)