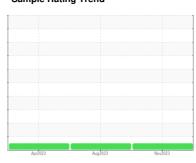


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id MLU-2 Component Lube System

CHEVRON REGAL OIL R&O 32 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Cample Date Client Info 17 Nov 2023 19 Apr 2023 10 Apr 2023	Aug2023 Aug2023 Nov2023						
Sample Date Client Info 17 Nov 2023 19 Apr 2023	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age	Sample Number		Client Info		RP0032111	RP0033379	RP0033401
Dil Age	Sample Date		Client Info		17 Nov 2023	01 Aug 2023	19 Apr 2023
Cili Changed Cilient Info N/A N/A N/A NORMAL NORMAL	Machine Age	hrs	Client Info		0	0	0
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 history2	Oil Age	hrs	Client Info		0	0	0
NORMAL NORMAL NORMAL NORMAL WEAR METALS method limit/base current history1 history2 history2	Oil Changed		Client Info		N/A	N/A	N/A
Chromium	Sample Status				NORMAL	NORMAL	NORMAL
Description	WEAR METALS		method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>20	0	<1	0
Description	Chromium	ppm	ASTM D5185m	>20	0	0	0
Silver	Nickel	ppm	ASTM D5185m	>20	<1	0	0
Action A	Titanium	ppm	ASTM D5185m		0	0	0
December December	Silver	ppm	ASTM D5185m		0	0	0
Description	Aluminum	ppm	ASTM D5185m	>20	0	<1	<1
ASTM D5185m >20	Lead		ASTM D5185m	>20	0	0	0
Astronometric Astronometri	Copper		ASTM D5185m	>20	7	7	7
Aranadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Barium ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 <1 <1 Manganese ppm ASTM D5185m 0 <1 <1 <1 Manganesium ppm ASTM D5185m 7 6 3 Magnesium ppm ASTM D5185m 7 6 3 Phosphorus ppm ASTM D5185m 19 22 20 Zinc ppm ASTM D5185m 6 14 10 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 1 <1 <1 <1 <1 <1 </td <td>Tin</td> <td></td> <td>ASTM D5185m</td> <td>>20</td> <th>2</th> <td>2</td> <td><1</td>	Tin		ASTM D5185m	>20	2	2	<1
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 0 0 0 0 Barium ppm ASTM D5185m 0 0 0 0 Magnesium ppm ASTM D5185m 0 <1	Vanadium		ASTM D5185m		0	0	<1
Soron ppm ASTM D5185m 0 0 0 0 0 0 0 0 0	Cadmium				0	0	0
Description	ADDITIVES		method	limit/base	current	history1	history2
Molybdenum ppm ASTM D5185m 0 0 <1 Manganese ppm ASTM D5185m 0 <1	Boron	ppm	ASTM D5185m		0	0	0
Manganese ppm ASTM D5185m 0 <1 <1 Magnesium ppm ASTM D5185m 1 2 3 Calcium ppm ASTM D5185m 7 6 3 Phosphorus ppm ASTM D5185m 19 22 20 Zinc ppm ASTM D5185m 6 14 10 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 1 <1 <1 <1 Sodium ppm ASTM D5185m >15 1 <1 <1 <1 Sodium ppm ASTM D5185m >15 1 <1 <1 <1 Sodium ppm ASTM D5185m >15 1 <1 <1 <1 Obassium ppm ASTM D5185m >15 1 <1 <1 <0 Obassium ppm ASTM D5185m >15 1	Barium	ppm	ASTM D5185m		0	0	0
Magnesium ppm ASTM D5185m 1 2 3 Calcium ppm ASTM D5185m 7 6 3 Phosphorus ppm ASTM D5185m 19 22 20 Zinc ppm ASTM D5185m 6 14 10 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >1 <1 <1 <1 <1 Sodium ppm ASTM D5185m 1 0 0 0 0 Potassium ppm ASTM D5185m >20 <1 0 0 0 Vater % ASTM D5185m >20 <1 0 0 0 Vater % ASTM D5185m >20 <1 0 0 0 Vater % ASTM D5185m >20 <1 0 0 0 0 Vater % ASTM D5185m 20<	Molybdenum	ppm	ASTM D5185m		0	0	<1
Calcium ppm ASTM D5185m 7 6 3 Phosphorus ppm ASTM D5185m 19 22 20 Zinc ppm ASTM D5185m 6 14 10 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 1 <1	Manganese	ppm	ASTM D5185m		0	<1	<1
Phosphorus ppm ASTM D5185m 19 22 20 Zinc ppm ASTM D5185m 6 14 10 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 1 <1 <1 <1 Sodium ppm ASTM D5185m 1 0 0 0 Potassium ppm ASTM D5185m >20 <1 0 0 Water % ASTM D6304 >0.05 0.002 0.002 0.002 0.002 Popm Water ppm ASTM D6304 >50.0 18	Magnesium	ppm	ASTM D5185m		1	2	3
Zinc ppm ASTM D5185m 6 14 10 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 1 <1	Calcium	ppm	ASTM D5185m		7	6	3
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >15 1 <1 <1 <1 <0 0 0 Potassium ppm ASTM D5185m >20 <1 0 0 0 Water % ASTM D6304 >0.05 0.002 0.002 0.004 Opm Water ppm ASTM D6304 >500 18 20.2 43.3 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.101 0.084 0.065 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE Scand/Dirt scalar *Visual NONE NONE NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML NORML	Phosphorus	ppm	ASTM D5185m		19	22	20
Solicon	Zinc	ppm	ASTM D5185m		6	14	10
Decided Deci	CONTAMINANTS	3	method	limit/base	current	history1	history2
Potassium ppm ASTM D5185m >20 <1 0 0 Mater % ASTM D6304 >0.05 0.002 0.002 0.004 ppm Water ppm ASTM D6304 >500 18 20.2 43.3 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.101 0.084 0.065 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML NORML	Silicon	ppm	ASTM D5185m	>15	1	<1	<1
Mater % ASTM D6304 >0.05 0.002 0.002 0.004 oppm Water ppm ASTM D6304 >500 18 20.2 43.3 FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.101 0.084 0.065 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Sodium	ppm	ASTM D5185m		1	0	0
Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE NONE NONE NONE NON	Potassium	ppm	ASTM D5185m	>20	<1	0	0
FLUID DEGRADATION method limit/base current history1 history2 Acid Number (AN) mg KOH/g ASTM D8045 0.101 0.084 0.065 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE NONE Sand/Dirt scalar *Visual NONE LIGHT NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Dodor scalar *Visual NORML NORML NORML NORML NORML NORML	Water	%	ASTM D6304	>0.05	0.002	0.002	0.004
Acid Number (AN) mg KOH/g ASTM D8045 0.101 0.084 0.065 VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE NONE Debris scalar *Visual NONE NONE NONE NONE Scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Debris Scalar *Visual NORML NORML NORML NORML Debris Scalar *Visual NORML NORML NORML NORML Debris Scalar *Visual NORML NORML NORML NORML NORML	ppm Water	ppm	ASTM D6304	>500	18	20.2	43.3
VISUAL method limit/base current history1 history2 White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML	FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
White Metal scalar *Visual NONE NONE NONE NONE Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Debris NORML NORML NORML NORML NORML	Acid Number (AN)	mg KOH/g	ASTM D8045		0.101	0.084	0.065
Yellow Metal scalar *Visual NONE NONE NONE NONE Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML NORML	VISUAL		method	limit/base	current	history1	
Precipitate scalar *Visual NONE NONE NONE NONE Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML	White Metal		*Visual				
Silt scalar *Visual NONE NONE NONE NONE Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Debris scalar *Visual NONE LIGHT NONE NONE Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Ddor scalar *Visual NORML NORML NORML NORML	Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt scalar *Visual NONE NONE NONE NONE Appearance scalar *Visual NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance scalar *Visual NORML NORML NORML NORML NORML Odor scalar *Visual NORML NORML NORML NORML	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Odor scalar *Visual NORML NORML NORML NORML	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.05	NEG	NEG	NEG

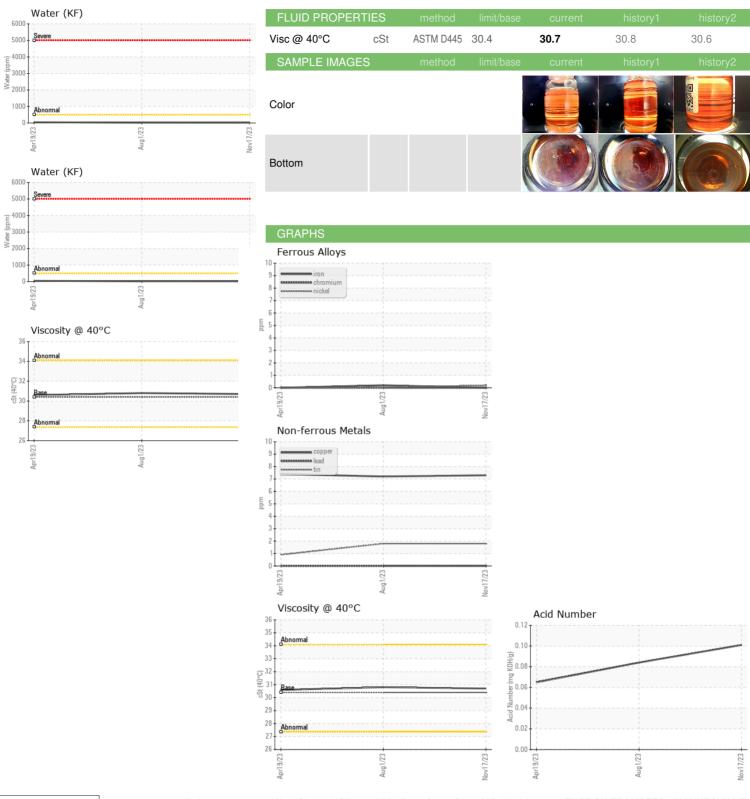
NEG

scalar *Visual

SerweeManager - ENECHAYLA



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : IND 2

: RP0032111 : 06016548 : 10755692

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Nov 2023 Diagnosed

: 28 Nov 2023 Diagnostician : Jonathan Hester **ENERGY TRANSFER - HAYNESVILLE**

249 MID VALLEY DR HAYNESVILLE, LA US 71038

Contact: Service Manager

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)

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F: