



OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id

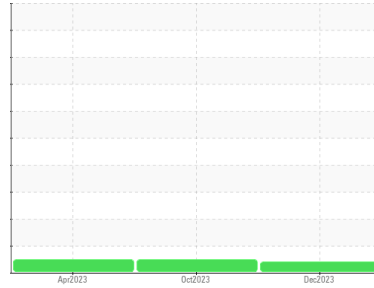
G61

Component

Diesel Engine

Fluid

CHEVRON URSA SUPER PLUS EC 15W40 (--- GAL)



DIAGNOSIS

▲ Recommendation

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

▲ Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0841452	WC0841474	WC0758954
Sample Date	Client Info		22 Dec 2023	10 Oct 2023	03 Apr 2023
Machine Age	hrs	Client Info	13247	12721	11531
Oil Age	hrs	Client Info	527	632	471
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			MARGINAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	5	6
Chromium	ppm	ASTM D5185m	>20	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1
Titanium	ppm	ASTM D5185m		0	0
Silver	ppm	ASTM D5185m	>3	0	<1
Aluminum	ppm	ASTM D5185m	>20	2	2
Lead	ppm	ASTM D5185m	>40	0	<1
Copper	ppm	ASTM D5185m	>330	<1	<1
Tin	ppm	ASTM D5185m	>15	0	<1
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		11	11
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		71	66
Manganese	ppm	ASTM D5185m		0	<1
Magnesium	ppm	ASTM D5185m		849	877
Calcium	ppm	ASTM D5185m		1115	1334
Phosphorus	ppm	ASTM D5185m	1200	958	1050
Zinc	ppm	ASTM D5185m	1300	1159	1372
Sulfur	ppm	ASTM D5185m		3215	3371

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	3	4
Sodium	ppm	ASTM D5185m		<1	2
Potassium	ppm	ASTM D5185m	>20	2	3
Fuel	%	ASTM D3524	>5	0.0	<1.0

INFRA-RED

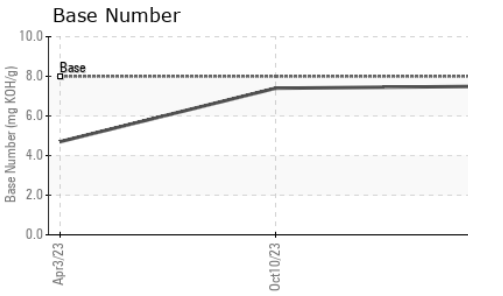
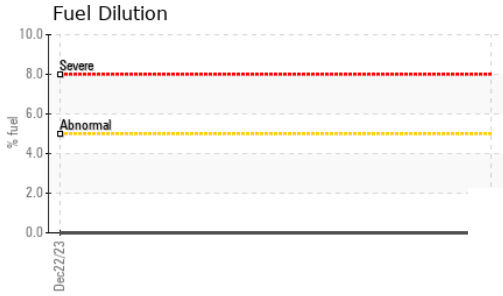
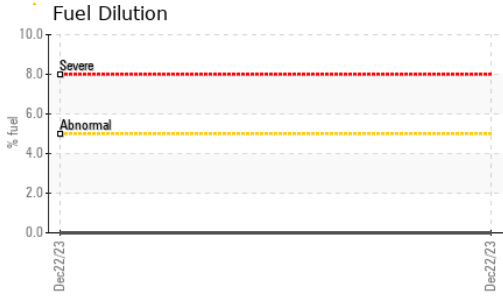
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	7.7	7.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.4	19.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.4	14.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.0	7.5	7.4



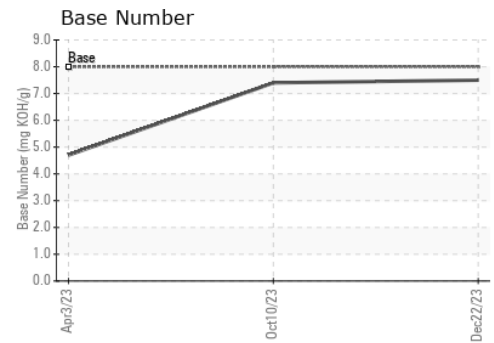
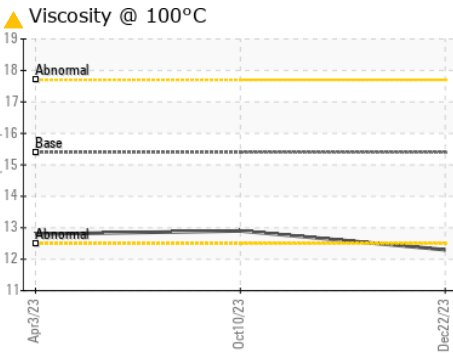
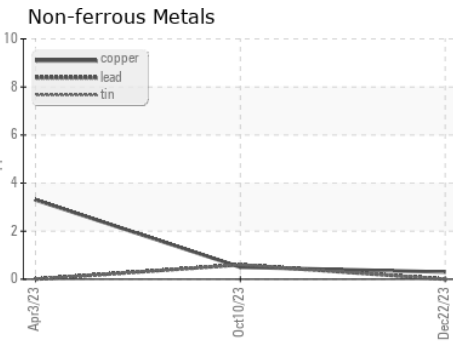
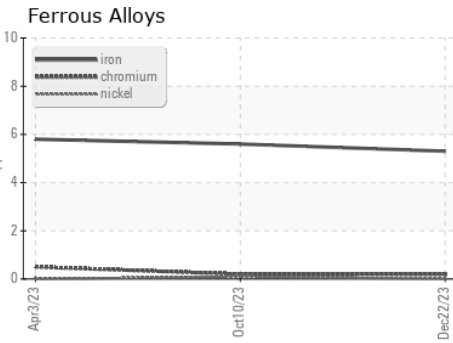
OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.4 ▲ 12.3	12.9	12.8

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0841452 **Received** : 10 Jan 2024
Lab Number : **06057218** **Diagnosed** : 12 Jan 2024
Unique Number : 10823167 **Diagnostician** : Jonathan Hester
Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

Apple Valley Waste - SEW Location
 309 Salina Road
 Sewell, NJ
 US 08080
 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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