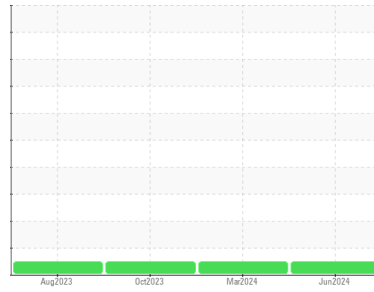




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**602301 - CHEVY 2500 PICK UP**  
 Component  
**Gasoline Engine**  
 Fluid  
**PETRO CANADA DURON ADVANCED 5W30 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

### 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>SBP0006612</b>	SBP0006387	SBP0004885
Sample Date	Client Info			<b>13 Jun 2024</b>	20 Mar 2024	26 Oct 2023
Machine Age	hrs	Client Info		<b>1540</b>	1197	931
Oil Age	hrs	Client Info		<b>343</b>	266	378
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	<1.0
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>150	<b>8</b>	9	7
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>40	<b>3</b>	4	3
Lead	ppm	ASTM D5185m	>50	<b>2</b>	<1	0
Copper	ppm	ASTM D5185m	>155	<b>2</b>	3	5
Tin	ppm	ASTM D5185m	>10	<b>1</b>	2	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	<b>44</b>	108	29
Barium	ppm	ASTM D5185m	0	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	43	<b>68</b>	78	72
Manganese	ppm	ASTM D5185m	0	<b>&lt;1</b>	1	<1
Magnesium	ppm	ASTM D5185m	920	<b>542</b>	500	485
Calcium	ppm	ASTM D5185m	1330	<b>1289</b>	1298	1056
Phosphorus	ppm	ASTM D5185m	790	<b>716</b>	704	630
Zinc	ppm	ASTM D5185m	880	<b>846</b>	812	728
Sulfur	ppm	ASTM D5185m	2200	<b>3403</b>	2958	2394

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>30	<b>10</b>	15	13
Sodium	ppm	ASTM D5185m	>400	<b>1</b>	<1	2
Potassium	ppm	ASTM D5185m	>20	<b>4</b>	2	<1

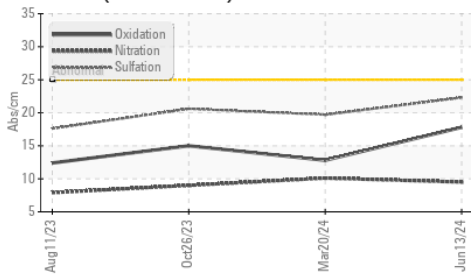
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		<b>0</b>	0	0
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.5</b>	10.1	9.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.3</b>	19.7	20.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>17.8</b>	12.8	15.0
Base Number (BN)	mg KOH/g	ASTM D2896	12.0	<b>3.5</b>	4.4	4.5

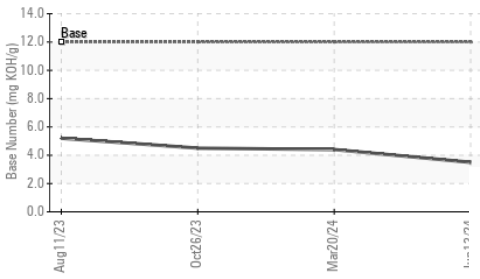


# OIL ANALYSIS REPORT

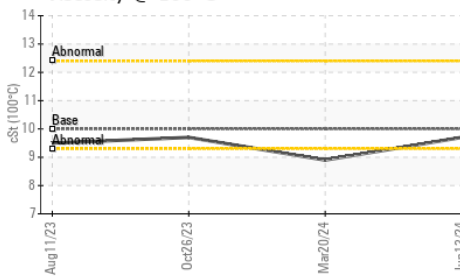
FT-IR (Direct Trend)



Base Number



Viscosity @ 100°C

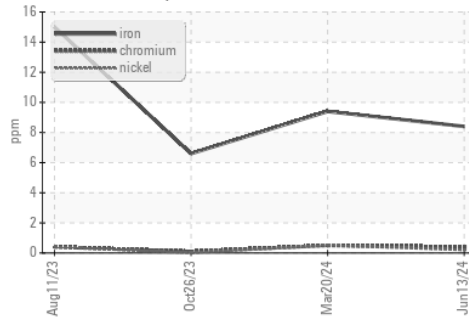


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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

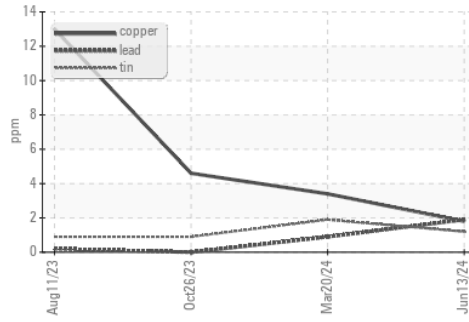
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.0	9.7	8.9

### GRAPHS

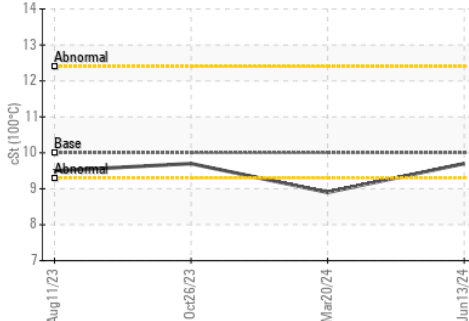
Ferrous Alloys



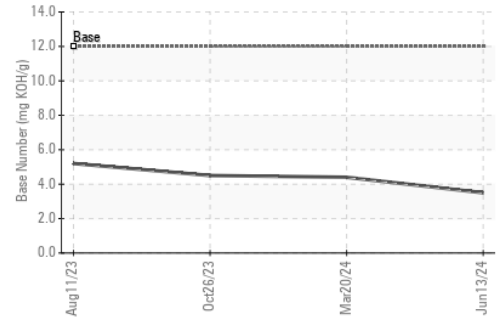
Non-ferrous Metals



Viscosity @ 100°C



Base Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0006612      **Received** : 24 Jun 2024  
**Lab Number** : 06219002      **Tested** : 26 Jun 2024  
**Unique Number** : 11097199      **Diagnosed** : 26 Jun 2024 - Wes Davis  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
 1815 Y Street  
 Lincoln, NE  
 US 68508  
 Contact: Loren Michael  
 LorenM@constructorslincoln.com  
 T: (402)434-2157  
 F:

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)