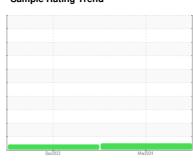


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



5400143

Component **Diesel Engine**

CHEVRON DELO 400 LE 15W40 (--- GAL)

		SIS	

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.

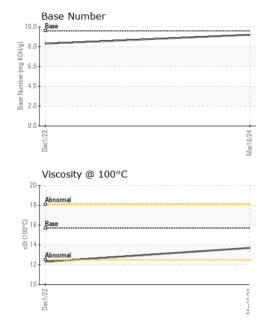
Fluid Condition

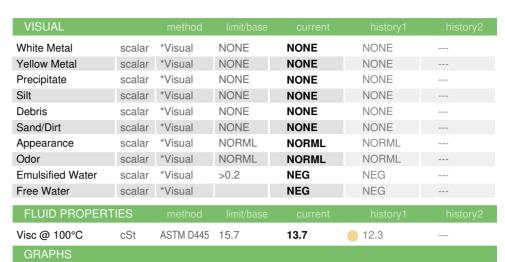
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

			Dec2022	Mar2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0777412	WC0732324	
Sample Date		Client Info		16 Mar 2024	01 Dec 2022	
Machine Age	hrs	Client Info		1977	502	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		Changed	N/A	
Sample Status				NORMAL	ATTENTION	
CONTAMINATION	1	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	0.4	
Water		WC Method	>0.2	NEG	NEG	
Glycol		WC Method		NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	7	28	
Chromium	ppm	ASTM D5185m	>20	<1	2	
Nickel	ppm	ASTM D5185m	>4	0	<1	
Titanium	ppm	ASTM D5185m		<1	<1	
Silver	ppm	ASTM D5185m	>3	0	0	
Aluminum	ppm	ASTM D5185m	>20	3	6	
Lead	ppm	ASTM D5185m	>40	0	3	
Copper	ppm	ASTM D5185m	>330	3	12	
Tin	ppm	ASTM D5185m	>15	0	2	
Vanadium	ppm	ASTM D5185m		<1	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		75	257	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		59	73	
Manganese	ppm	ASTM D5185m		<1	4	
Magnesium	ppm	ASTM D5185m		524	592	
Calcium	ppm	ASTM D5185m		1506	1510	
Phosphorus	ppm	ASTM D5185m	1200	1030	755	
Zinc	ppm	ASTM D5185m	1300	1199	935	
Sulfur	ppm	ASTM D5185m	3200	3646	3637	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	8	16	
Sodium	ppm	ASTM D5185m		7	2	
Potassium	ppm	ASTM D5185m	>20	4	2	
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1	0.1	
Nitration	Abs/cm	*ASTM D7624	>20	6.9	8.4	
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	21.1	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	16.3	
Base Number (BN)	mg KOH/g	ASTM D2896	9.6	9.2	8.3	

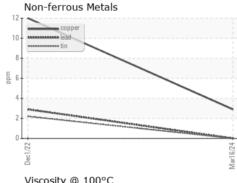


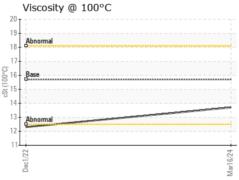
OIL ANALYSIS REPORT

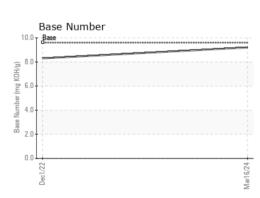




Ferrous	Alloys	
i i	ron chromium	
20		
Ē 15 -		
10		
5		
0		
Dec1/22		Mar16/24











Laboratory Sample No. Unique Number: 10937124

: WC0777412 Lab Number : 06122973

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

: 19 Mar 2024 : 20 Mar 2024 : 20 Mar 2024 - Wes Davis

509 N SAM HOUSTON PKWY E HOUSTON, TX

HAYWARD BAKER INC - HOUSTON

Contact/Location: CHARLIE JOHNS - HAYHOU

US 77060 Contact: CHARLIE JOHNS cejohns@keller-na.com

T: (281)668-1870

Test Package : CONST (Additional Tests: TBN) 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)

F: