

Machine Id FREIGHTLINER 12245 Component Diesel Engine

CHEVRON DELO 400 MULTIGRADE 15W40 (19 QTS)

CREVRON DELO 400 MULTIGRADE 150040 (19	Q15)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0913885	WC0882314	WCM1273292
	Sample Date		Client Info		04 Apr 2024	05 Dec 2023	05 Mar 2021
	Machine Age	mls	Client Info		232642	222833	0
	Oil Age	mls	Client Info		0	10000	0
	Filter Age	mls	Client Info		0	10000	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>80	32	33	20
	Chromium	ppm	ASTM D5185m	>5	2	<1	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>30	6	5	5
	Lead	ppm	ASTM D5185m	>30	<1	0	0
	Copper	ppm	ASTM D5185m	>150	<1	2	1
	Tin	ppm	ASTM D5185m	>5	<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	6	5	3
	Potassium	ppm	ASTM D5185m		1	3	4
There is no indication of any contamination in the oil.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.5	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.6	11.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.2	22.0	28.2
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	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
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	1	<1
	Boron	ppm	ASTM D5185m	151	222	4	4
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	0.4	0	0	0
	Molybdenum	ppm	ASTM D5185m	250	121	68	24
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	0	792	904	328
	Calcium	ppm	ASTM D5185m	2046	1829	991	1885
	Phosphorus	ppm	ASTM D5185m	1043	896	985	842
	Zinc	ppm	ASTM D5185m	943	1106	1214	1016
	Sulfur	ppm	ASTM D5185m	5012	3404	3153	2842
	Oxidation	Abs/.1mm	*ASTM D7414		19.2	20.7	25
	Base Number (BN)	mg KOH/g	ASTM D2896	12.5	8.6	7.1	5.6

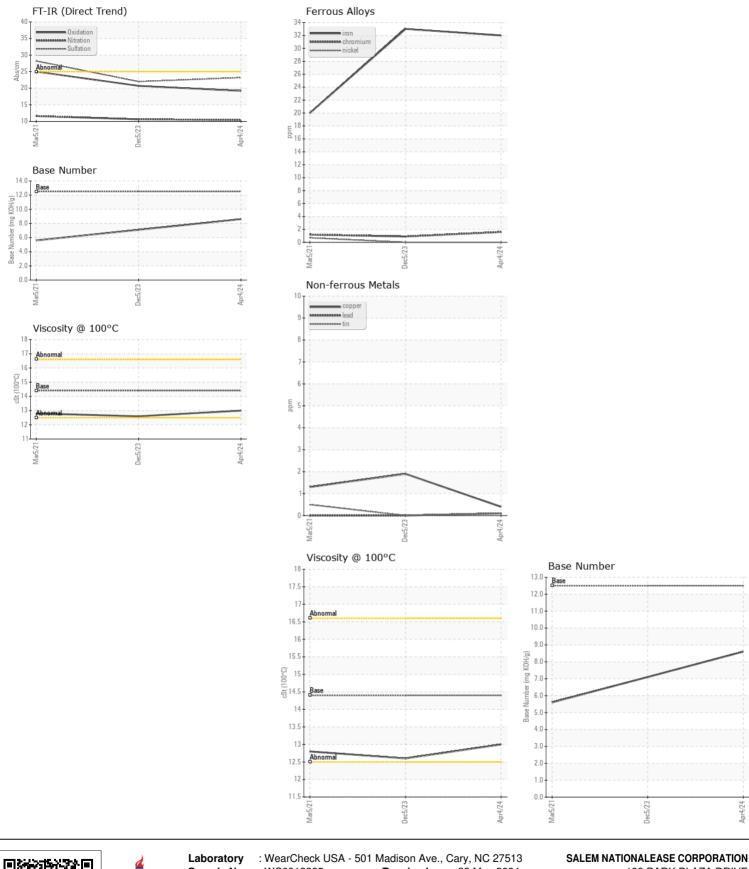
Visc @ 100°C cSt

ASTM D445 14.4

13.0

12.6

12.8



SALEM NATIONALEASE CORPORATION Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 198 PARK PLAZA DRIVE : WC0913885 : 28 May 2024 Lab Number : 06193353 Tested WINSTON SALEM, NC : 30 May 2024 Unique Number : 11050105 : 30 May 2024 - Wes Davis US 27105 Diagnosed Test Package : FLEET **Contact: Audrey Hopkins** Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. Audrey.Hopkins@salemcorp.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (336)767-9642 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: x:

Contact/Location: Audrey Hopkins - SALWIN Page 2 of 2