

OIL ANALYSIS REPORT

Sample Rating Trend

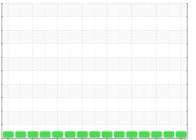




Machine Id 925035-142576

Component **Diesel Engine** Fluid

CHEVRON DELO 400 MULTIGRADE 15W40 (--- LTR)





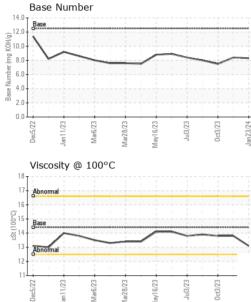
DIAGNOSIS	SAMPLE INFOR		method	iimit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0103441	GFL0098448	GFL0073535
Resample at the next service interval to monitor.	Sample Date		Client Info		23 Jan 2024	20 Dec 2023	03 Oct 2023
Wear	Machine Age	hrs	Client Info		17105	17030	16970
All component wear rates are normal.	Oil Age	hrs	Client Info		75	459	399
	Oil Changed	1113	Client Info		Not Changd	Changed	N/A
ontamination	Sample Status				NORMAL	NORMAL	NORMAL
here is no indication of any contamination in the il.	CONTAMINAT		method	limit/base			history2
uid Condition						history1	
he BN result indicates that there is suitable	Fuel		WC Method		<1.0	<1.0	<1.0
kalinity remaining in the oil. The condition of the	Water		WC Method	>0.2	NEG	NEG	NEG
l is suitable for further service.	Glycol		WC Method		NEG	NEG	NEG
	WEAR METAL	S	method	limit/base	current	history1	history2
	Iron	ppm	ASTM D5185m	>120	5	11	8
	Chromium	ppm	ASTM D5185m	>20	0	<1	0
	Nickel	ppm	ASTM D5185m	>5	<1	<1	0
	Titanium	ppm	ASTM D5185m	>2	0	0	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	3	8
	Lead	ppm	ASTM D5185m	>40	0	0	<1
	Copper	ppm	ASTM D5185m	>330	0	<1	<1
	Tin	ppm	ASTM D5185m	>15	<1	0	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	Cadmium	ppm	ASTM D5185m		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185m	151	38	60	46
	Barium	ppm	ASTM D5185m	0.4	0	0	0
	Molybdenum	ppm	ASTM D5185m	250	71	76	77
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m	0	843	840	925
	Calcium	ppm	ASTM D5185m	2046	1047	1147	1195
	Phosphorus	ppm	ASTM D5185m	1043	937	850	942
	Zinc	ppm	ASTM D5185m	943	1161	1110	1238
	Sulfur	ppm	ASTM D5185m	5012	2898	2966	3048
	CONTAMINAN	ITS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185m	>25	5	6	5
	Sodium	ppm	ASTM D5185m		3	2	4
	Potassium	ppm	ASTM D5185m	>20	1	3	0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	*ASTM D7844	>4	0.2	0.5	0.5
	Nitration	Abs/cm			5.8	7.6	8.5
		Abs/.1mm			17.8	19.6	21.1
	Sulfation	/100/.111111					
	FLUID DEGRA			limit/base	current	history1	history2
	FLUID DEGRA	DATION	method				
		DATION Abs/.1mm	method *ASTM D7414	>25	current 13.3 8.3	history1 15.2 8.4	history2 16.5 7.5



an11/73

Mar6/23

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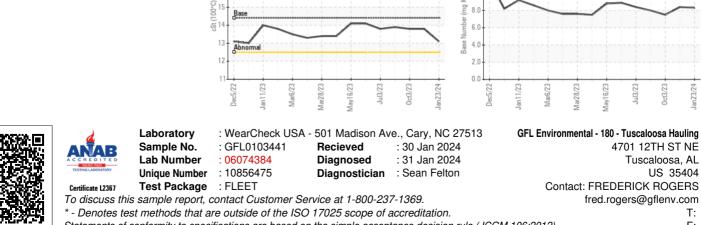


Mar28/23

Mav16/23

Jul3/23

VISUAL		method	limit/base	current	history1	history
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	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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history
Visc @ 100°C	cSt	ASTM D445	14.4	13.1	13.8	13.8
GRAPHS						
Ferrous Alloys						
iron chromium						
nickel						
			•			
	$\overline{}$	\wedge				
	$\overline{}$	\sim	$\overline{)}$			
	3	\sim	14			
	ar28/23 av16/23	Jui3723	an23/24			
Dec5/22 Jan11/23 Mar6/23	Mar28/23	Jul373	Jan23/24			
Dec2/23 Jan 11/23 Non-ferrous Meta		Jul3/23	Jan 23/24			
Non-ferrous Meta		Dudiza	Jan23/24			
EZ/gaew Non-ferrous Meta		EZEDUC	Jan 23/24			
Non-ferrous Meta		Def3/23	And			
EZUSSee Non-ferrous Meta		0e323	Jan 23/24			
Non-ferrous Meta		ES/Ebu	Jan 23/24			
EZUSSee Non-ferrous Meta		0cd323	Jan 23/24 Å			
Non-ferrous Meta		Pud223	Jan 23/24			
EZUgaew Non-ferrous Meta	ls					
Non-ferrous Meta		Juli2/2 Contact of Con	Jan 23/24			
Non-ferrous Meta	Is			Base Number		
Dec5/22 Jan11/23 Marb/2/3 Marb/2/3 Marb/2/3	Is			Base Number	r	
Non-ferrous Meta	Is		4/0 14.0	Base Number	Γ	
Viscosity @ 100°C	Is		4-0-23/23/24	Base Number		



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: see also GFL868 - Chelsea Bryan

an23/24

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