

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id 925035-142576

Component **Diesel Engine** Fluid

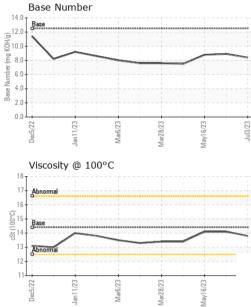
CHEVRON DELO 400 M	ULTIGRADE 15W40 ((LTR)	Dec2022	Jan2023 Mar2023	Mar2023 May2023	Jul2023	
DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history 1	history 2
Recommendation Resample at the next service interval to monitor. Vear Il component wear rates are normal. Contamination	Sample Number Sample Date Machine Age Oil Age Oil Changed Sample Status	hrs hrs	Client Info Client Info Client Info Client Info Client Info		GFL0086310 03 Jul 2023 16571 372 Changed NORMAL	GFL0073530 14 Jun 2023 16470 0 N/A NORMAL	GFL0051135 16 May 2023 16331 132 Not Changd NORMAL
here is no indication of any contamination in the il.	CONTAMINAT		method	limit/base		history 1	history 2
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.	Fuel Glycol		WC Method WC Method	>3.0	<1.0 NEG	<1.0 NEG	<1.0 NEG
	WEAR METAL	.S	method	limit/base	current	history 1	history 2
	Iron Chromium Nickel Titanium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>20 >5	8 0 <1 <1	4 <1 0 <1	6 0 0
	Silver Aluminum Lead	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	>2 >20	<1 <1 2 <1	<1 0 3 1	0 0 2 <1
	Copper Tin Vanadium	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	>330	<1 <1 0	<1 <1 <1	<1 0 0
	Cadmium	ppm ppm	ASTM D5185m		0	<1	0
	ADDITIVES		method	limit/base	current	history 1	history 2
	Boron Barium	ppm ppm	ASTM D5185m ASTM D5185m		67 0	86 0 77	97 2 78
	Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	250 0	79 <1 770	<1 894	0 766
	Calcium Phosphorus Zinc	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	1043	1232 901 1063	1288 951 1205	1202 906 1077
	Sulfur	ppm	ASTM D5185m	5012	2843	3665	3117
	CONTAMINAN	ITS	method	limit/base	current	history 1	history 2
	Silicon Sodium Potassium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m		5 0 2	5 2 2	6 0 1
	INFRA-RED		method	limit/base	current	history 1	history 2
	Soot % Nitration Sulfation	% Abs/cm Abs/.1mm	*ASTM D7844 *ASTM D7624 *ASTM D7415	>20	0.4 8.6 21.6	0.3 6.5 20.1	0.1 6.4 19.6
	FLUID DEGRA	DATION	method	limit/base	current	history 1	history 2
	Oxidation Base Number (BN)		*ASTM D7414 ASTM D2896		16.3 8.4	15.1 8.9	14.7 8.8





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VISUAL



	Laboratory Sample No. Lab Number Unique Number Test Package	: GFL008 : <mark>0589349</mark> : 1054930	6310 95	501 Madia Received Diagnos Diagnos	ed :11	ary, NC 275 Jul 2023 Jul 2023 es Davis	513		nvironmental - 180 - Tuscaloosa Haulin 4701 12TH ST NE Tuscaloosa, Al US 35404 Contact: FREDERICK ROGERS fred.rogers@gflenv.con T:				
		17 Abnormal 16 16 16 16 16 16 16 16 16 16	Jan 11/23	Matb/23	May16/23		14.0 12.0 8.0 6.0 4.0 2.0 0.0 12.0 10.0	Jan 11,23	Mar6/23	Mar28/23 -	May 16/23	Jul3/23	
			EZILINE ty @ 100°0	A Marb/23	May16/23	EZ/EInf		Number					
		¹⁰	EZCILIER rrous Meta	cZdg2meW hls	May16/23	EZ/EJnr							
Mar6.23	May/6/23	20	PHS	cSt	ASTM D445	14.4	13.8	3	14.1		14.1		
		FLUID) PROPE	ERTIES	method	limit/bas	e cı	urrent	hist	tory 1	histo	ry 2	
- 0 Mar6/23 Mar28/23	May16/23	Odor Emulsifie Free Wat	ed Water	scalar scalar scalar	*Visual *Visual *Visual	NORML >0.2		RML G	NOR NEG NEG	RML	NORM NEG NEG		
/23	ay16/23	Debris Sand/Dir Appearar		scalar scalar scalar	*Visual *Visual *Visual	NONE NORML	NO NO		NON NON NOR	IE	NONE NONE NORM		
		Precipita Silt	le	scalar	*Visual	NONE	NO	NE	NON	IE	NONE		
		Yellow M		scalar scalar	*Visual *Visual	NONE NONE NONE	NO		NON NON		NONE NONE NONE		

limit/base

Submitted By: see also GFL868 - Chelsea Bryan