

OIL ANALYSIS REPORT

Sample Rating Trend





Recommendation

Contamination

Fluid Condition

Wear

oil.

Resample at the next service interval to monitor.

There is no indication of any contamination in the

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

All component wear rates are normal.

oil is suitable for further service.

Machine Id **10617** Component **Diesel Engine** Fluid

CHEVRON DELO 400 SDE SAE 15W40 (11 GAL)

panis Jundalis Jundalis Gedalis Jundalis Dicklezi Newser



SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		GFL0088569	GFL0069406	GFL0069391		
Sample Date		Client Info		17 Jul 2023	27 Mar 2023	08 Feb 2023		
Machine Age	hrs	Client Info		572	10677	10677		
Oil Age	hrs	Client Info		572	703	690		
Oil Changed		Client Info		N/A	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINA	TION	method	limit/base	current	history1	history2		
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0		
Glycol		WC Method		NEG	NEG	NEG		
WEAR META	LS	method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>90	35	10	38		
Chromium	ppm	ASTM D5185m	>20	2	1	2		
Nickel	ppm	ASTM D5185m	>2	<1	0	<1		
Titanium	ppm	ASTM D5185m	>2	<1	<1	<1		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>20	4	5	5		
Lead	ppm	ASTM D5185m	>40	1	0	1		
Copper	ppm	ASTM D5185m	>330	2	<1	2		
Tin	ppm	ASTM D5185m	>15	<1	0	<1		
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		<1	27	6		
Barium	ppm	ASTM D5185m		1	0	0		
Molybdenum	ppm	ASTM D5185m		65	49	63		
Manganese	ppm	ASTM D5185m		<1	1	<1		
Magnesium	ppm	ASTM D5185m		1058	571	885		
Calcium	ppm	ASTM D5185m		1185	1623	1165		
Phosphorus	ppm	ASTM D5185m	760	1092	761	962		
Zinc	ppm	ASTM D5185m	800	1408	970	1217		
Sulfur	ppm	ASTM D5185m	3000	3775	2635	3379		
CONTAMINA	NTS	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	7	10		
Sodium	ppm	ASTM D5185m		2	7	<1		
Potassium	ppm	ASTM D5185m	>20	9	2	0		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>6	0.4	0.1	0.3		
Nitration	Abs/cm	*ASTM D7624	>20	9.4	5.5	8.9		
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	17.7	20.0		
FLUID DEGRA		method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.9	13.3	16.9		

8.2

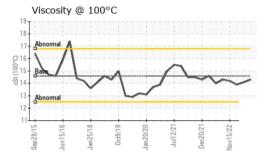
Base Number (BN) mg KOH/g ASTM D2896 10

9.2 8.2

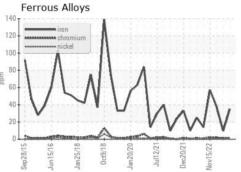


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Base Number 12.0 B 0.0 Dec20/21 Sep28/15 Jul12/21 Jov15/22 an20/20 1

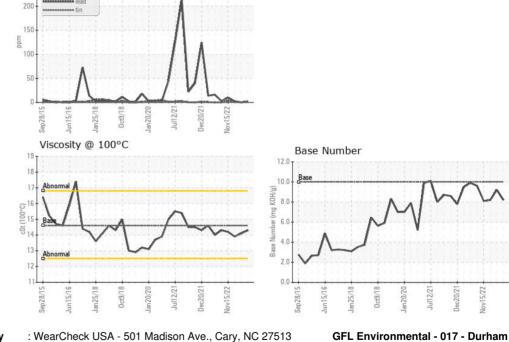


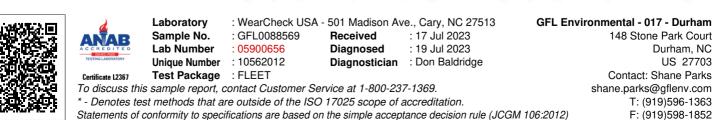
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	history2
Visc @ 100°C	cSt	ASTM D445	14.6	14.3	14.1	13.9
GRAPHS						



Non-ferrous Metals

250





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

Submitted By: Shane Parks

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Durham, NC

US 27703