

WEAR	
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id							
FORD 834-18							
Gasoline Engine							
DURALENE Dura-Syn DX-1 5W30 (7 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn		History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		DC0033062	DC0023313	
	Sample Date	mele	Client Info		19 Apr 2024	15 Dec 2022	20 Sep 202
	Machine Age	mls	Client Info		120577 5000	120577 6332	114245
	Oil Age Filter Age	mls mls	Client Info Client Info		5000	0	7000 0
	Oil Changed	11115	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>150	35	6	6
	Chromium	ppm	ASTM D5185m	>20	2	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	2	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m		7	1	1
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		35	9	10
	Tin	ppm	ASTM D5185m	>10	3	<1	<1
	Vanadium	ppm	ASTM D5185m	NONE	<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>30	20	6	6
	Potassium	ppm	ASTM D5185m	>20	3	0	1
There is no indication of any contamination in the oil.	Fuel		WC Method	>4.0	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	15.4	11.7	11.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	28.9	25.2	25.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>400	12	3	6
	Boron	ppm	ASTM D5185m	- 100	16	31	24
The BN level is low. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		<1	0	2
	Molybdenum	ppm	ASTM D5185m		153	63	50
	Manganese	ppm	ASTM D5185m		5	<1	<1
	Magnesium	ppm	ASTM D5185m		438	471	373
	Calcium	ppm	ASTM D5185m		1139	1363	1440
	Phosphorus	ppm	ASTM D5185m		626	667	653
	Zinc	ppm	ASTM D5185m		753	791	813
	Sulfur	ppm	ASTM D5185m		2101	3408	3223
	Oxidation	Abs/.1mm	*ASTM D7414	>25	28.8	17.3	18.2
	Base Number (BN)	mg KOH/g	ASTM D2896		A 2.5	5.5	5.9
	Vian @ 100°C	- C+	ACTN D44E		10.0	10.0	11.0

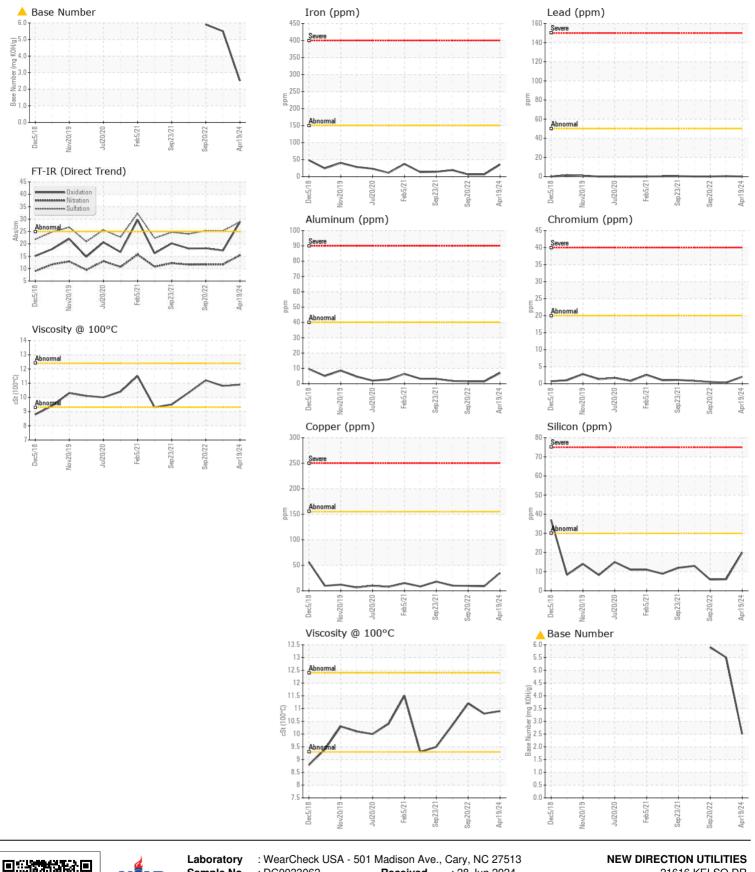
Visc @ 100°C cSt

ASTM D445

11.2

10.8

10.9



Received 21616 KELSO DR Sample No. : DC0033062 : 28 Jun 2024 HAGERSTOWN, MD Lab Number : 06224153 Tested : 02 Jul 2024 : 02 Jul 2024 - Jonathan Hester US 21742 Unique Number : 11102350 Diagnosed Test Package : MOB 1 (Additional Tests: TBN) Contact: GARY BLOYER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. gary@newdirectionutilities.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (301)714-0083 F: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)