

Machine Id 8121

Diesel Engine Fluid DIESEL ENGINE OIL SAE 10W30 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		IL06217761	IL05601308	IL05601312
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Date		Client Info		23 Jun 2024	26 Jul 2022	25 Jul 202
	Machine Age	mls	Client Info		0	0	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	160	▲ 123	3
Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	2	0
	Nickel	ppm	ASTM D5185m		0	<1	<1
	Titanium	ppm	ASTM D5185m	~ 1	0	<1	<1
	Silver	ppm	ASTM D5185m	-3	0	<1	1
	Aluminum	ppm	ASTM D5185m		13	12	<1
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		2	8	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m	210	۰ <1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon		ASTM D5185m	. 25	13	11	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		25	11	1
	Fuel	ppm	WC Method		25 <1.0	▲ 2.5	1.2
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.1	1	0.2
	Nitration	Abs/cm	*ASTM D7624		16.2	15.7	7.2
	Sulfation	Abs/.1mm	*ASTM D7415		28.1	27.8	19.0
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance			NORML	NORML	NORML	NORMI
	Odor		*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water			>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m		4	2	2
	Boron	ppm ppm	ASTM D5185m	250	4 27	2	104
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m	10	0	0	0
	Molybdenum	ppm ppm	ASTM D5185m		64	38	12
	Manganese	ppm	ASTM D5185m	100	2	1	<1
	Magnesium	ppm	ASTM D5185m	450	2 446	572	614
	Calcium	ppm	ASTM D5185m		2101	1639	1266
	Phosphorus	ppm	ASTM D5185m		923	683	649
	Zinc		ASTM D5185m		923 1099	885	768
	Sulfur	ppm	ASTM D5185m		3091	2850	3190
	Sulul	ppm	A0100 D0100111	4200	3091	2000	3190

Oxidation

Visc @ 100°C cSt

Abs/.1mm *ASTM D7414 >25

ASTM D445 10.9

Base Number (BN) mg KOH/g ASTM D2896 8.5

26.2

7.2

10.9

12.3

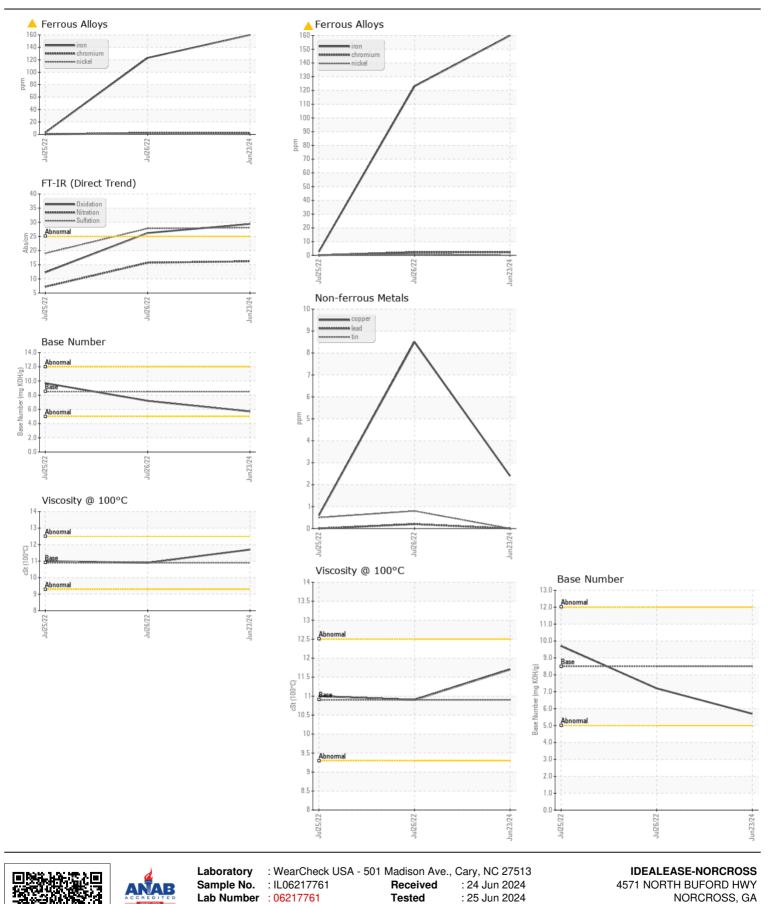
9.7

11.0

29.4

5.7

11.7



Lab Number : 06217761 Tested : 25 Jun 2024 Unique Number : 11090625 Diagnosed : 25 Jun 2024 - Don Baldridge Test Package : FLEET Contact: RICK MARKS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (770)300-0614

Contact/Location: RICK MARKS - IDENORGA Page 2 of 2

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