

Machine Id CATERPILLAR LT-300

Diesel Engine

FLEETLINE SUPERFLEET XHD 15W40 (--- GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LP0001917		LP0001363
	Sample Date		Client Info		03 May 2024		12 Dec 2023
	Machine Age	hrs	Client Info		4983	4477	4080
	Oil Age	hrs	Client Info		336	250	250
	Filter Age	hrs	Client Info		336	250	250
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>100	10	4	5
	Chromium	ppm	ASTM D5185m		0	<1	0
	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	2
	Lead	ppm	ASTM D5185m		2	2	1
	Copper	ppm	ASTM D5185m		5	3	5
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION							
	Silicon	ppm	ASTM D5185m		7	8	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5	0	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	<u> </u>	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	8.6	7.8
	Sulfation	Abs/.1mm	*ASTM D7415		20.3	19.3	19.3
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NORML	NONE NORML
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
		Scalai	visuai	20.2		NLG	NLQ
FLUID CONDITION	Sodium	ppm	ASTM D5185m		5	0	<1
	Boron	ppm	ASTM D5185m		13	7	11
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		12	16	20
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		125	173	269
	Calcium	ppm	ASTM D5185m		2244	1995	1988
	Phosphorus	ppm	ASTM D5185m		947	829	956
	Zinc	ppm	ASTM D5185m		1093	1101	1130
	Sulfur	ppm	ASTM D5185m		4101	3276	3383
	Oxidation	Abs/.1mm	*ASTM D7414	>25	14.5	13.6	14.8
	Base Number (BN)	mg KOH/g	ASTM D2896		6.89	8.36	8.45
	Vian @ 10000	- 04	AOTA DAAF	1 - 0	101	10.0	10.4

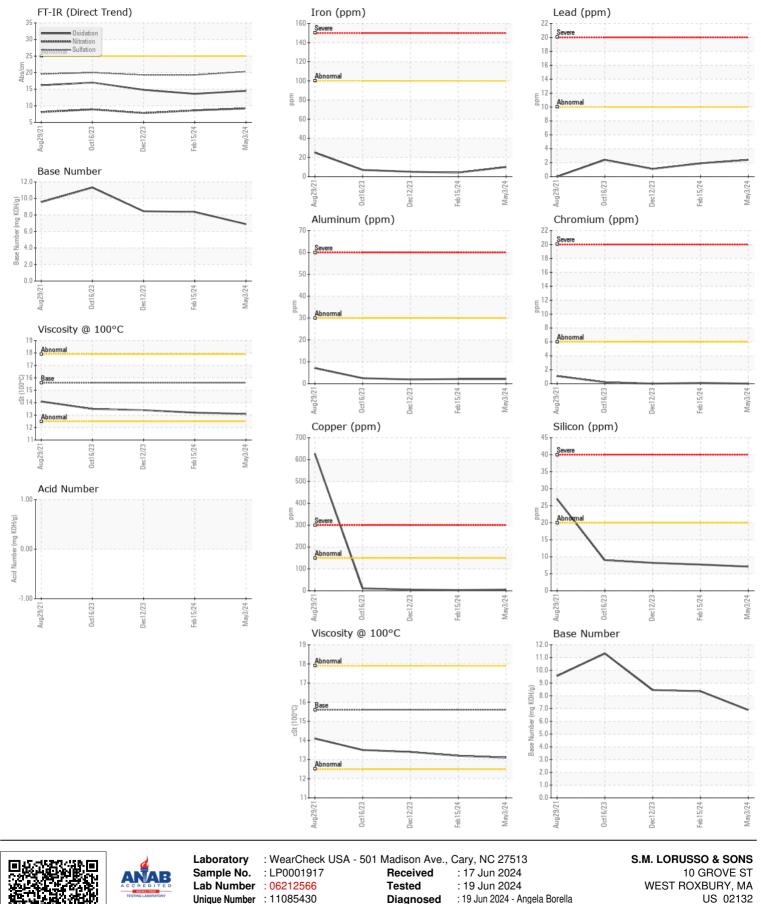
Visc @ 100°C cSt

ASTM D445 15.6

13.2

13.4

13.1



Certificate L2367 Test Package : MOB 2 (Additional Tests: TAN Man) 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)

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