

Machine Id 58454 Component Diesel Engine Fluid EXXON 15W40 (--- QTS)

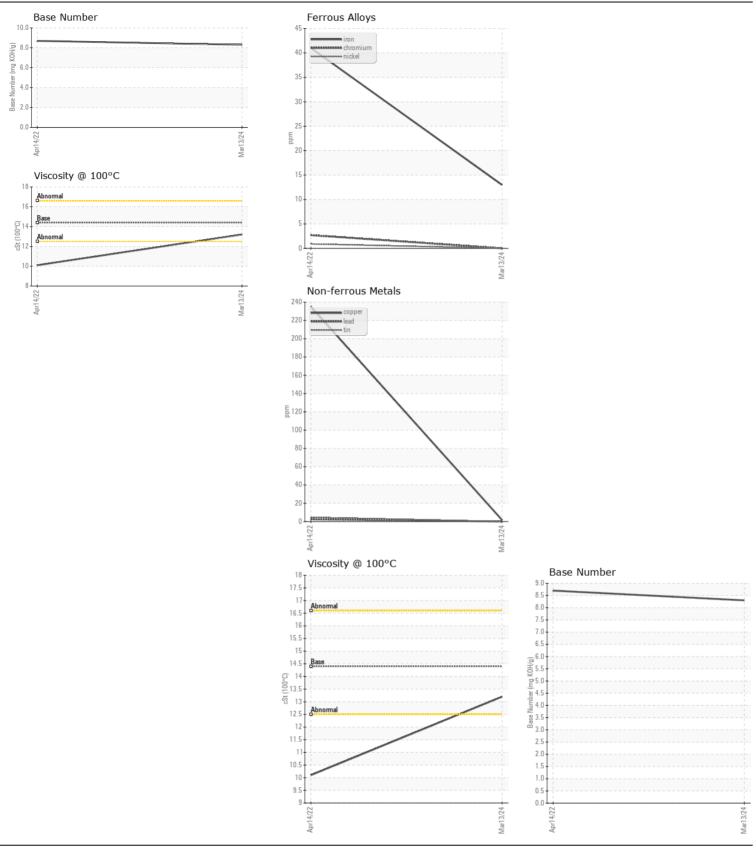
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0903319	WC0684328	
	Sample Date		Client Info		13 Mar 2024	14 Apr 2022	
	Machine Age	mls	Client Info		113328	20874	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ATTENTION	
WEAR	Iron	ppm	ASTM D5185m	>100	13	41	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	3	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	21	0	<1	
	Silver		ASTM D5185m	-3	0	0	
	Aluminum	ppm	ASTM D5185m		2	16	
		ppm	ASTM D5185m				
	Lead	ppm		-	0	2	
	Copper	ppm	ASTM D5185m		2	235	
	Tin	ppm	ASTM D5185m	>15	0	5	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	54	
	Fuel		WC Method	>5	<1.0	0.3	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.1	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	4.5	8.9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	18.9	22.7	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	
	Boron	ppm	ASTM D5185m		283	54	
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	
	Molybdenum	ppm	ASTM D5185m		83	48	
	Manganese	ppm	ASTM D5185m		0	2	
	Magnesium	ppm	ASTM D5185m		577	433	
	Calcium	ppm	ASTM D5185m		1370	1785	
	Phosphorus	ppm	ASTM D5185m		1130	664	
	Zinc		ASTM D5185m		1318	936	
		ppm					
	Sulfur	ppm	ASTM D5185m	05	4274	1096	
	Oxidation	Abs/.1mm	*ASTM D7414	>20	12.9	21.5	
	Base Number (BN)	mg KUH/g	ASTM D2896		8.3	8.7	

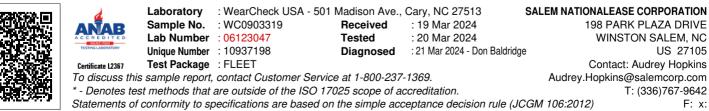
Visc@100°C cSt

ASTM D445 14.4

10.1

13.2





Contact/Location: Audrey Hopkins - SALWIN